

04/02/2006 10783887.trn

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the
IPC reform
NEWS 4 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 5 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 6 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 7 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 8 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 9 JAN 30 Saved answer limit increased
NEWS 10 JAN 31 Monthly current-awareness alert (SDI) frequency
added to TULSA
NEWS 11 FEB 21 STN AnaVist, Version 1.1, lets you share your STN AnaVist
visualization results
NEWS 12 FEB 22 Status of current WO (PCT) information on STN
NEWS 13 FEB 22 The IPC thesaurus added to additional patent databases on STN
NEWS 14 FEB 22 Updates in EPFULL; IPC 8 enhancements added
NEWS 15 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 16 FEB 28 MEDLINE/LMEDLINE reload improves functionality
NEWS 17 FEB 28 TOXCENTER reloaded with enhancements
NEWS 18 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral
property data
NEWS 19 MAR 01 INSPEC reloaded and enhanced
NEWS 20 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 21 MAR 08 X.25 communication option no longer available after June 2006
NEWS 22 MAR 22 EMBASE is now updated on a daily basis

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
<http://download.cas.org/express/v8.0-Discover/>

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:25:13 ON 02 APR 2006

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:25:27 ON 02 APR 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAR 2006 HIGHEST RN 878899-57-1

DICTIONARY FILE UPDATES: 31 MAR 2006 HIGHEST RN 878899-57-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information.. *
*

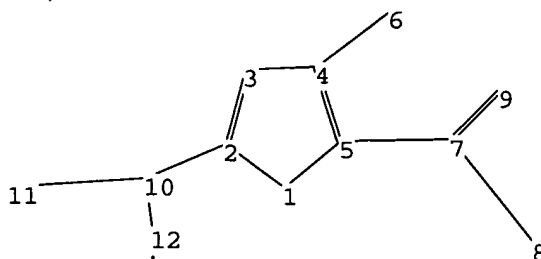
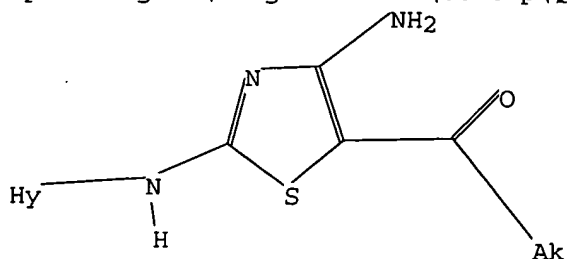
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10783887.str



chain nodes :

6 7 8 9 10 11 12

ring nodes :

1 2 3 4 5

chain bonds :

2-10 4-6 5-7 7-8 7-9 10-11 10-12

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

2-3 2-10 3-4 4-6 7-8 7-9 10-11

exact bonds :

1-2 1-5 4-5 5-7 10-12

isolated ring systems :

containing 1 :

Match level :

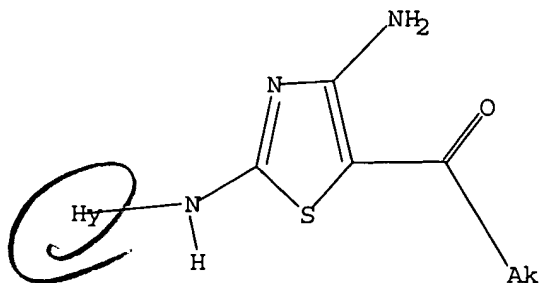
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:Atom 12:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

04/02/2006 10783887.trn

=> s l1

SAMPLE SEARCH INITIATED 13:25:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 188 TO ITERATE

100.0% PROCESSED 188 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2938 TO 4582
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 13:25:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3405 TO ITERATE

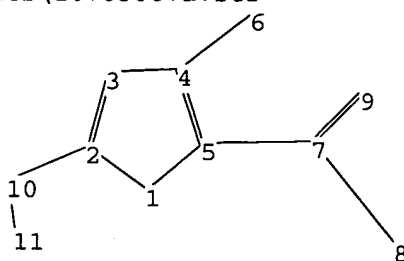
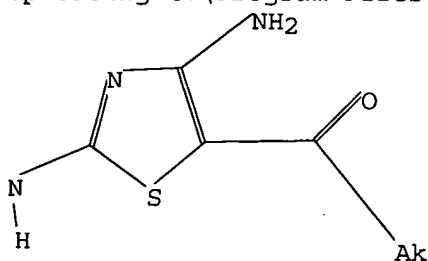
100.0% PROCESSED 3405 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

L3 1 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10783887a.str



chain nodes :
6 7 8 9 10 11
ring nodes :
1 2 3 4 5
chain bonds :
2-10 4-6 5-7 7-8 7-9 10-11
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
2-3 2-10 3-4 4-6 7-8 7-9
exact bonds :
1-2 1-5 4-5 5-7 10-11
isolated ring systems :
containing 1 :

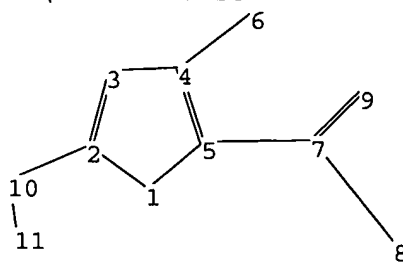
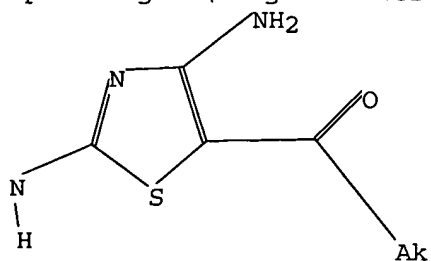
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS

L4 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10783887a.str



chain nodes :

6 7 8 9 10 11

ring nodes :

1 2 3 4 5

chain bonds :

2-10 4-6 5-7 7-8 7-9 10-11

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

2-3 2-10 3-4 4-6 7-8 7-9

exact bonds :

1-2 1-5 4-5 5-7 10-11

isolated ring systems :

containing 1 :

Match level :

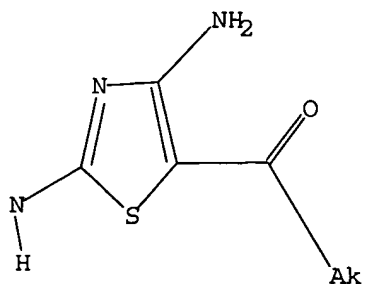
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS

L5 STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 13:27:11 FILE 'REGISTRY'

04/02/2006 10783887.trn

SAMPLE SCREEN SEARCH COMPLETED - 188 TO ITERATE

100.0% PROCESSED 188 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2938 TO 4582
PROJECTED ANSWERS: 3 TO 163

L6 3 SEA SSS SAM L4

=> s l4 sss full
FULL SEARCH INITIATED 13:27:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3405 TO ITERATE

100.0% PROCESSED 3405 ITERATIONS
SEARCH TIME: 00.00.01

40 ANSWERS

L7 40 SEA SSS FUL L4

=> FIL HCAPLUS
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
334.32	334.53

FILE 'HCAPLUS' ENTERED AT 13:27:29 ON 02 APR 2006
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FILE COVERS 1907 - 2 Apr 2006 VOL 144 ISS 15
FILE LAST UPDATED: 31 Mar 2006 (20060331/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7

L8 17 L7

=> s l3

L9 1 L3

=> d his

(FILE 'HOME' ENTERED AT 13:25:13 ON 02 APR 2006)

FILE 'REGISTRY' ENTERED AT 13:25:27 ON 02 APR 2006

L1 STRUCTURE UPLOADED
 L2 0 S L1
 L3 1 S L1 SSS FULL
 L4 STRUCTURE UPLOADED
 L5 STRUCTURE UPLOADED
 L6 3 S L4
 L7 40 S L4 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:27:29 ON 02 APR 2006

L8 17 S L7
 L9 1 S L3

=> d l9 ibib abs hitstr tot

L9 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:261970 HCAPLUS

DOCUMENT NUMBER: 138:281150

TITLE: Inhibitors of glycogen synthase kinase-3 for treating glaucoma

INVENTOR(S): Hellberg, Mark R.; Clark, Abbot F.; Pang, Iok-Hou; Hellberg, Peggy Elizabeth; McNatt, Loretta Graves; Wang, Wan-Heng

PATENT ASSIGNEE(S): Alcon, Inc., Switz.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027275	A1	20030403	WO 2002-US30059	20020923
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
CA 2460000	AA	20030403	CA 2002-2460000	20020923
EP 1430120	A1	20040623	EP 2002-799603	20020923
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012924	A	20050104	BR 2002-12924	20020923
JP 2005504101	T2	20050210	JP 2003-530847	20020923
US 2004186159	A1	20040923	US 2004-488496	20040302
ZA 2004001846	A	20050307	ZA 2004-1846	20040305
JP 2005320350	A2	20051117	JP 2005-211956	20050721
PRIORITY APPLN. INFO.:			US 2001-325390P	P 20010927
			JP 2003-530847	A3 20020923
			WO 2002-US30059	W 20020923

OTHER SOURCE(S): MARPAT 138:281150

AB The use of inhibitors of glycogen synthase kinase-3 (GSK-3) useful for treating glaucoma is disclosed. The inhibitors are selected from the group consisting of indirubine analogs, 2,4-diaminothiazole analogs,

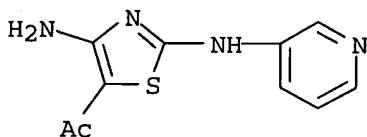
1,2,4-triazolecarboxylic acid derivs. or analogs, hymenialdesine or derivs. or analogs, and paullone analogs. Preferred inhibitors comprise 3-(1-[3-aminopropyl]-3-indolyl)-4-(2-chlorophenyl)pyrrole-2,5-dione and 3-(1-[3-hydroxypropyl]-3-indolyl)-4-(2-chlorophenyl)pyrrole-2,5-dione. The compds. are formulated in pharmaceutical compns. suitable for topical delivery to the eye.

IT 503546-62-1

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(inhibitors of glycogen synthase kinase-3 for treating glaucoma)

RN 503546-62-1 HCAPLUS

CN Ethanone, 1-[4-amino-2-(3-pyridinylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

=> d 18 ibib abs hitstr tot

L8 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:170742 HCAPLUS

DOCUMENT NUMBER: 144:254120

TITLE: Preparation of thiophene and thiazole derivatives as
PDE4B inhibitors

INVENTOR(S): Ibrahim, Prabha N.; Cho, Hanna; England, Bruce;
Gillette, Sam; Artis, Dean R.; Zuckerman, Rebecca;
Zhang, Chao

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 205 pp.

CODEN: USXXCO

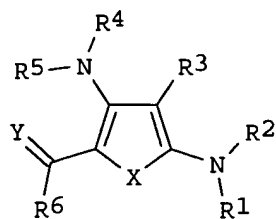
DOCUMENT TYPE: Patent

LANGUAGE: English

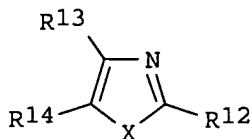
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

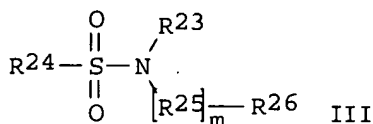
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006041006	A1	20060223	US 2005-123893	20050506
PRIORITY APPLN. INFO.: GI			US 2004-569435P	P 20040506



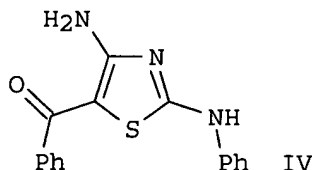
I



II



III



IV

AB The title compds. I [X = O, S, NR7; R1-R2, R4-R5, R7 = H, acyl, alkyl, etc.; R3 = CN, NO2, alkyl, etc.; Y = O, S; R6 = OH, alkoxy, thioalkoxy, etc.], II [X = S, O, NR15; R12 = H, alkyl, aryl, etc.; R13 = OR16, SR16, (un)substituted amino; R14 = OR16, SR16, alkyl, etc.; R15 = H, alkyl, cycloalkyl, etc.; R16 = alkyl, cycloalkyl, aryl, etc.] and III [R23 = H, alkyl, cycloalkyl, etc.; R24 = alkyl, cycloalkyl, aryl, etc.; R25, if present, is (un)substituted alkylene; R26 = (un)substituted carbocyclic or heterocyclic having 3-14 ring atoms; m = 0-3; with provisions] which are active on phosphodiesterase PDE4B are provided. E.g., a multi-step synthesis of IV, starting from 2-(4-chlorobenzyl)-2-thiopseudourea hydrochloride and Ph isothiocyanate, was given. The compound I-III were tested against various PDE4 kinases and TNF α (biol. data given). Also provided are compns. comprising compds. I-III which are useful for treatment of PDE4B-mediated diseases or conditions, and methods for the use thereof.

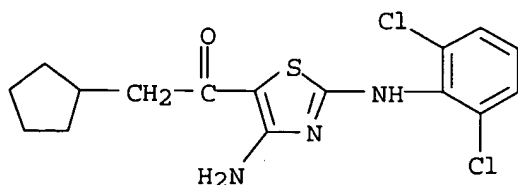
IT **877219-02-8P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiophene and thiazole derivs. as PDE4B inhibitors)

RN 877219-02-8 HCAPLUS

CN Ethanone, 1-[4-amino-2-[(2,6-dichlorophenyl)amino]-5-thiazolyl]-2-cyclopentyl- (9CI) (CA INDEX NAME)



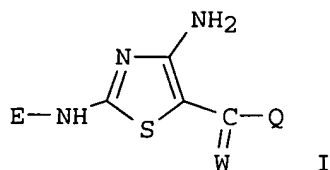
L8 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:612019 HCAPLUS

DOCUMENT NUMBER: 143:92536

TITLE: Preparation of 2,4-diaminothiazole derivatives as plant growth regulators
 INVENTOR(S): Bastiaans, Henricus M. M.; Donn, Guenter; Knittel, Nathalie; Martelletti, Arianna; Rees, Richard; Schwall, Michael; Whitford, Ryan
 PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 60 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005063022	A1	20050714	WO 2004-EP14262	20041215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1550372	A1	20050706	EP 2003-29844	20031224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			EP 2003-29844	A 20031224
			EP 2004-11253	A 20040512
OTHER SOURCE(S):		MARPAT 143:92536		
GI				

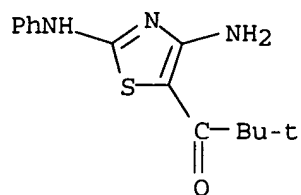


AB The 2,4-diaminothiazole derivs. I [E = (un)substituted alkyl, alkenyl, alkynyl, furfuryl, isoxazolyl, etc.; W =, O, NOH. etc.; Q = (un)substituted cycloalkyl, cycloalkylalkyl, aryl, etc.] are prepared as plant growth regulators.

IT 353511-94-1P 856008-23-6P 856008-24-7P 856008-25-8P
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation as plant growth regulator)

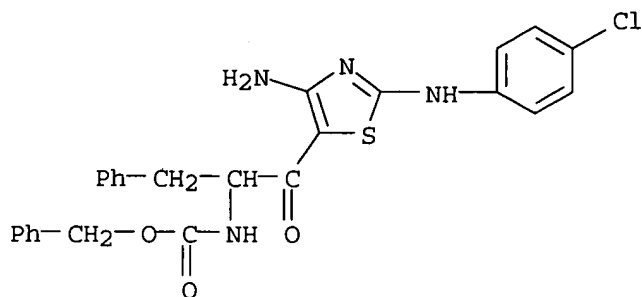
RN 353511-94-1 HCAPLUS

CN 1-Propanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]-2,2-dimethyl- (9CI)
 (CA INDEX NAME)



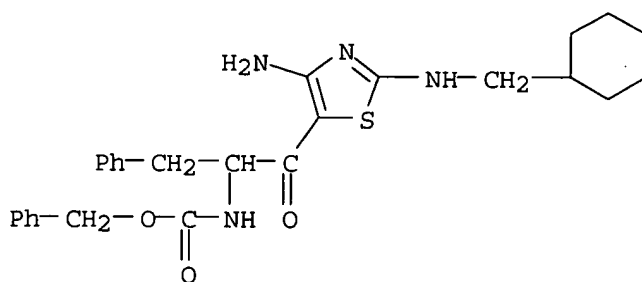
RN 856008-23-6 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-[(4-chlorophenyl)amino]-5-thiazolyl]-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



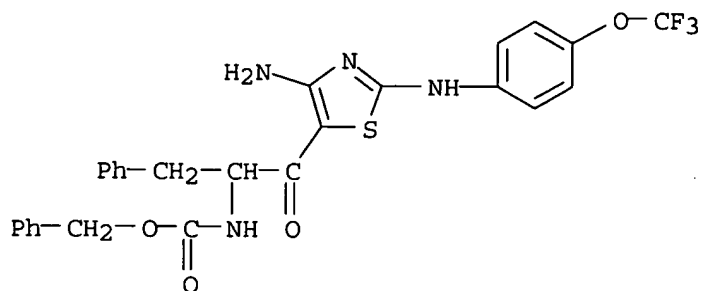
RN 856008-24-7 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-[(cyclohexylmethyl)amino]-5-thiazolyl]-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 856008-25-8 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-[[4-(trifluoromethoxy)phenyl]amino]-5-thiazolyl]-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:582483 HCAPLUS

DOCUMENT NUMBER: 143:73303

TITLE: Preparation of 2,4-diaminothiazole derivatives as plant growth regulators

INVENTOR(S): Bastiaans, Henricus M. M.; Donn, Guenter; Knittel, Nathalie; Martelletti, Arianna; Rees, Richard; Schwall, Michael; Whitford, Ryan

PATENT ASSIGNEE(S): Bayer CropScience G.m.b.H., Germany

SOURCE: Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

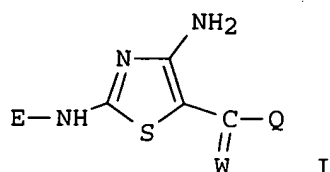
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1550372	A1	20050706	EP 2003-29844	20031224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2005063022	A1	20050714	WO 2004-EP14262	20041215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-29844 A 20031224
EP 2004-11253 A 20040512

OTHER SOURCE(S): MARPAT 143:73303
GI



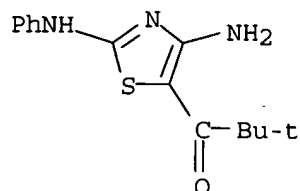
AB The 2,4-diamino-5-substituted-thiazole derivs. I [E = alkyl, alkenyl, alkynyl, alkoxycarbonyl, Ph, pyridinyl, etc.; W = O, NOH, etc.; Q = (un)substituted cycloalkyl, cycloalkylalkyl, etc.] are prepared as plant growth regulators.

IT 353511-94-1P 856008-23-6P 856008-24-7P
856008-25-8P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as plant growth regulator)

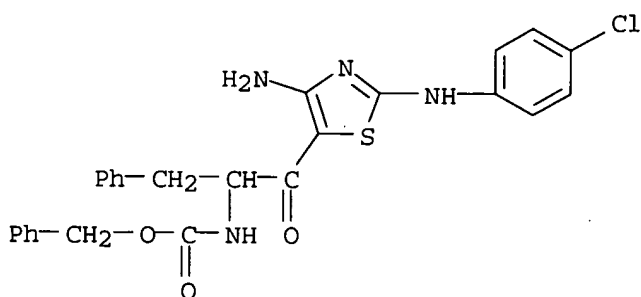
RN 353511-94-1 HCAPLUS

CN 1-Propanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]-2,2-dimethyl- (9CI)
(CA INDEX NAME)



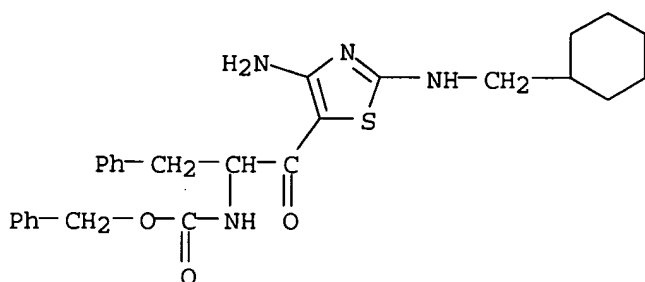
RN 856008-23-6 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-[(4-chlorophenyl)amino]-5-thiazolyl]-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



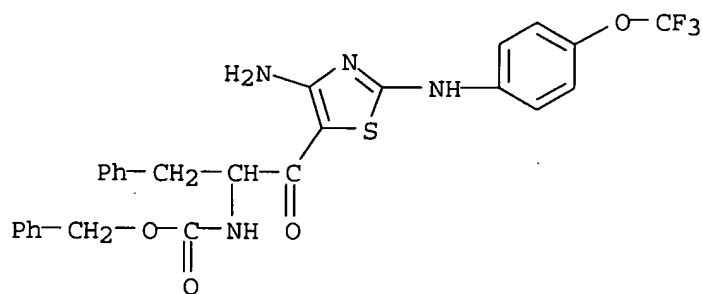
RN 856008-24-7 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-[(cyclohexylmethyl)amino]-5-thiazolyl]-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 856008-25-8 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-[[4-(trifluoromethoxy)phenyl]amino]-5-thiazolyl]-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:696372 HCAPLUS

DOCUMENT NUMBER: 141:225498

TITLE: Preparation 2-(sulfo-phenyl)-aminothiazole derivatives with antiproliferative activity

INVENTOR(S): Chong, Wesley Kwan Mung; Chu, Shaosong; Duvadie, Rohit Kumar; Li, Lin; Na, Jim; Schaffer, Lamar; Yang, Yi

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 179 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

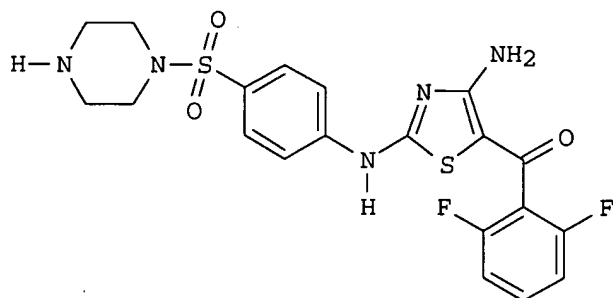
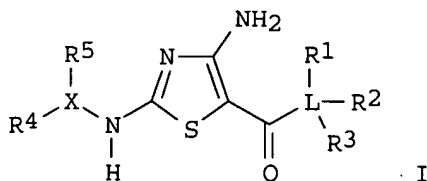
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072070	A1	20040826	WO 2004-IB287	20040203
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,			

GQ, GW, ML, MR, NE, SN, TD, TG

CA 2515728	AA	20040826	CA 2004-2515728	20040203
EP 1594866	A1	20051116	EP 2004-707585	20040203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007456	A	20060131	BR 2004-7456	20040203
US 2004176431	A1	20040909	US 2004-776450	20040211
PRIORITY APPLN. INFO.:			US 2003-447329P	P 20030212
			WO 2004-IB287	W 20040203
OTHER SOURCE(S):		MARPAT 141:225498		
GI				



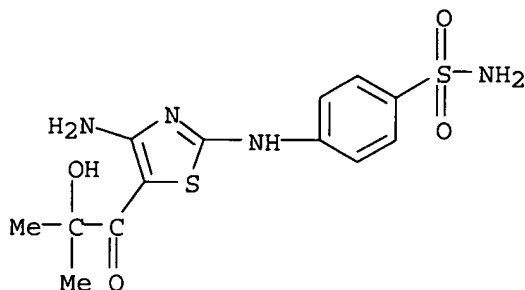
AB Title compds. I [X = cycloalkyl, heterocycloalkyl, aryl or heteroaryl; L = (un)substituted-alkyl, -cycloalkyl, -heterocycloalkyl, -aryl, -heteroaryl; R1 = OH, halo, alkyl, alkoxy, acyl, amide and NO₂; R2 and R3 independently = H, OH, halo, alkyl, alkoxy, acyl, amide, amino, acetamido, and NO₂; R4 = substituted-sulfonyl, -sulfoxide or -sulfanyl; R5 = H, OH, halo, alkyl, alkoxy, acyl, amide and nitro], and their pharmaceutically acceptable salts, prodrugs, active metabolites, and pharmaceutically acceptable salts of said metabolites are prepared and disclosed as antiproliferative agents. Thus, e.g. II was prepared by cyclization of 4-isothiocyanatobenzenesulfonyl fluoride (preparation given) with 2-bromo-2',6'-difluoroacetophenone (preparation given) followed by substitution with piperazine. I were evaluated for cyclin dependent kinase activity as well as inhibition of cell growth. For example, in cell growth inhibition studies, II demonstrated an IC₅₀ of 1.0 μM. These agents modulate and/or inhibit the cell proliferation and activity of protein kinases and are useful as pharmaceuticals for treating malignancies and other disorders.

IT **746626-02-8P 746626-03-9P 746626-09-5P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and antiproliferative activity of diaminothiazoles)

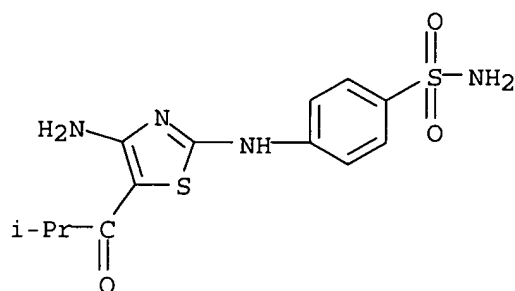
RN 746626-02-8 HCAPLUS

CN Benzenesulfonamide, 4-[[4-amino-5-(2-hydroxy-2-methyl-1-oxopropyl)-2-thiazolyl]amino]- (9CI) (CA INDEX NAME)



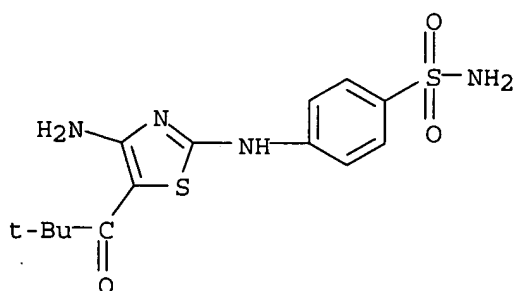
RN 746626-03-9 HCAPLUS

CN Benzenesulfonamide, 4-[[4-amino-5-(2-methyl-1-oxopropyl)-2-thiazolyl]amino]- (9CI) (CA INDEX NAME)



RN 746626-09-5 HCAPLUS

CN Benzenesulfonamide, 4-[[4-amino-5-(2,2-dimethyl-1-oxopropyl)-2-thiazolyl]amino]- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

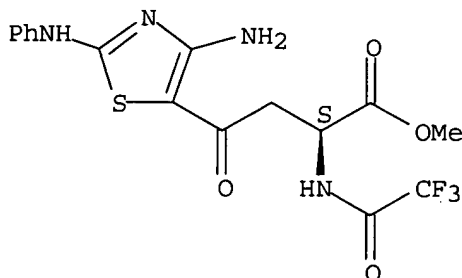
ACCESSION NUMBER: 2003:994927 HCAPLUS

DOCUMENT NUMBER: 140:287674

TITLE: Reactions of (S)-N-trifluoroacetyl-5-bromo-4-oxonorvaline methyl ester with vicinal mercaptonitriles. Synthesis of δ -hetaryl-

substituted α -amino acids
 AUTHOR(S): Fedorov, A. E.; Shestopalov, A. M.; Belyakov, P. A.
 CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian
 Academy of Sciences, Moscow, 119991, Russia
 SOURCE: Russian Chemical Bulletin (Translation of Izvestiya
 Akademii Nauk, Seriya Khimicheskaya) (2003), 52(9),
 2063-2069
 CODEN: RCBUEY; ISSN: 1066-5285
 PUBLISHER: Kluwer Academic/Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 140:287674
 AB The reactions of (S)-N-trifluoroacetyl-5-bromo-4-oxonorvaline Me ester
 with vicinal mercaptonitriles afforded δ -hetaryl-N-trifluoroacetyl-
 substituted α -amino acids (hetaryl is thiazol-2-yl, 2-thienyl, or
 thieno[2,3-b]pyridin-6-yl).
 IT **676165-46-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of δ -heteroaryl α -amino acids from
 trifluoroacetylbromooxonorvaline and vicinal mercaptonitriles)
 RN 676165-46-1 HCAPLUS
 CN 5-Thiazolebutanoic acid, 4-amino- γ -oxo-2-(phenylamino)- α -
 [(trifluoroacetyl)amino]-, methyl ester, (α S)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry. Rotation (+).

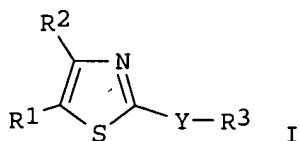


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:855916 HCAPLUS
 DOCUMENT NUMBER: 139:350728
 TITLE: Preparation of 2-substituted-1,3-thiazole compounds
 for treatment of conditions associated with glycogen
 synthase kinase-3
 INVENTOR(S): Berg, Stefan; Hellberg, Sven
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003089419 A1 20031030 WO 2003-SE616 20030415
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
CA 2480451 AA 20031030 CA 2003-2480451 20030415
AU 2003224547 A1 20031103 AU 2003-224547 20030415
EP 1499601 A1 20050126 EP 2003-721210 20030415
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 2005119321 A1 20050602 US 2003-510846 20030415
JP 2005526835 T2 20050908 JP 2003-586140 20030415
PRIORITY APPLN. INFO.: SE 2002-1194 A 20020419
WO 2003-SE616 W 20030415
OTHER SOURCE(S): MARPAT 139:350728
GI



AB The title compds. I [Y is NR₄CONR₄, NR₄CO, or NR₄; R₁ is nitro or COR₅; R₂ is hydrogen or NH₂; R₃ is C₁-6alkyl or C₀-6alkylaryl wherein C₀-6alkylaryl may be substituted by A; R₄ is hydrogen; R₅ is C₁-6alkyl; A is independently selected from halo, OR₆ and C₁-6alkyl; R₆ is C₁-6alkyl; provided that the compound is not N-(4-methoxybenzyl)-N'-(5-nitro-1,3-thiazol-2-yl)urea] are prepared Determination of ATP competition in scintillation

proximity GSK3 β assay was done : typical K_i values for compds. of this invention are 0.001 to 10000 nM.

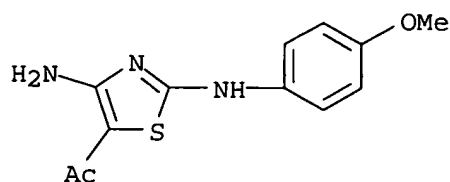
IT **618882-40-9P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of thiazole derivs. for treatment of conditions associated with glycogen synthase kinase-3)

RN 618882-40-9 HCAPLUS

CN Ethanone, 1-[4-amino-2-[(4-methoxyphenyl)amino]-5-thiazolyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:261970 HCAPLUS

DOCUMENT NUMBER: 138:281150

TITLE: Inhibitors of glycogen synthase kinase-3 for treating glaucoma

INVENTOR(S): ~~Hellberg, Mark R.~~; Clark, Abbot F.; Pang, Iok-Hou; Hellberg, Peggy Elizabeth; McNatt, Loretta Graves; Wang, Wan-Heng

PATENT ASSIGNEE(S): Alcon, Inc., Switz.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027275	A1	20030403	WO 2002-US30059	20020923
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR			
CA 2460000	AA	20030403	CA 2002-2460000	20020923
EP 1430120	A1	20040623	EP 2002-799603	20020923
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
BR 2002012924	A	20050104	BR 2002-12924	20020923
JP 2005504101	T2	20050210	JP 2003-530847	20020923
US 2004186159	A1	20040923	US 2004-488496	20040302
ZA 2004001846	A	20050307	ZA 2004-1846	20040305
JP 2005320350	A2	20051117	JP 2005-211956	20050721
PRIORITY APPLN. INFO.:			US 2001-325390P	P 20010927
			JP 2003-530847	A3 20020923
			WO 2002-US30059	W 20020923

OTHER SOURCE(S): MARPAT 138:281150

AB The use of inhibitors of glycogen synthase kinase-3 (GSK-3) useful for treating glaucoma is disclosed. The inhibitors are selected from the group consisting of indirubine analogs, 2,4-diaminothiazole analogs, 1,2,4-triazolecarboxylic acid derivs. or analogs, hymenialdesine or derivs. or analogs, and paullone analogs. Preferred inhibitors comprise 3-(1-[3-aminopropyl]-3-indolyl)-4-(2-chlorophenyl)pyrrole-2,5-dione and 3-(1-[3-hydroxypropyl]-3-indolyl)-4-(2-chlorophenyl)pyrrole-2,5-dione.

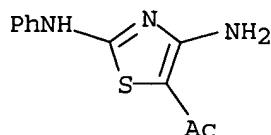
The compds. are formulated in pharmaceutical compns. suitable for topical delivery to the eye.

IT 13807-14-2 223786-60-5 503546-62-1

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(inhibitors of glycogen synthase kinase-3 for treating glaucoma)

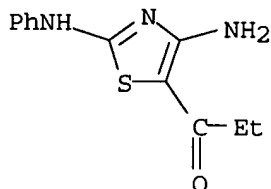
RN 13807-14-2 HCAPLUS

CN Ethanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



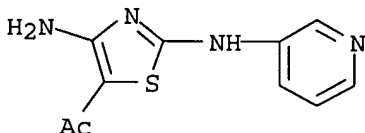
RN 223786-60-5 HCAPLUS

CN 1-Propanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



RN 503546-62-1 HCAPLUS

CN Ethanone, 1-[4-amino-2-(3-pyridinylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:835624 HCAPLUS

DOCUMENT NUMBER: 139:6779

TITLE: Product class 17: thiazoles

AUTHOR(S): Kikelj, D.; Urleb, U.

CORPORATE SOURCE: Fac. Pharm., University Ljubljana, Slovenia

SOURCE: Science of Synthesis (2002), 11, 627-833

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

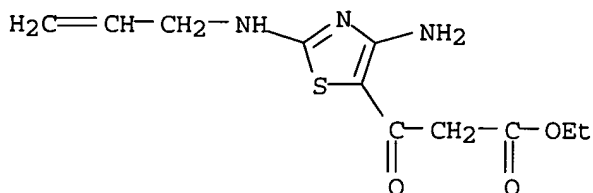
AB A review of synthetic methods to prepare thiazoles as well as reactive modifications of thiazole moieties.

IT 70604-13-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(review of preparation of thiazoles and reactions thereof)

RN 70604-13-6 HCAPLUS

CN 5-Thiazolepropanoic acid, 4-amino- β -oxo-2-(2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1224 THERE ARE 1224 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:581702 HCAPLUS

DOCUMENT NUMBER: 135:166823

TITLE: Preparation of 2,4-diaminothiazoles as GSK-3 inhibitors

INVENTOR(S): Bowler, Andrew Neil; Olesen, Preben Houlberg; Sorensen, Anders Robert; Hansen, Bo Falck; Worsaae, Helle; Kurtzhals, Peter

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

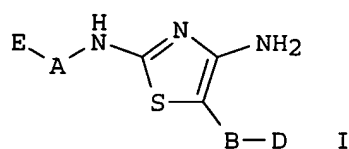
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

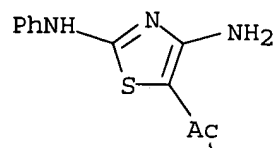
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056567	A1	20010809	WO 2001-DK73	20010201
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 2001039275	A1	20011108	US 2001-774900	20010131
PRIORITY APPLN. INFO.:			DK 2000-187	A 20000204
			US 2000-183518P	P 20000218
OTHER SOURCE(S):	MARPAT 135:166823			
GI				

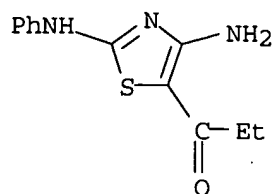


AB The title compds. [I; E = alkyl, alkenyl, alkoxy, etc.; A = a bond, alkylene, CO; B = a bond, CO, SO, etc.; D = OH, halo, CN, etc.] which inhibit GSK-3 (glycogen synthase kinase-3) and which are useful for the treatment and/or prevention disorders and diseases wherein an inhibition of GSK-3 is beneficial, especially especially Alzheimer's disease, bipolar disorder, IGT (impaired glucose tolerance), Type 1 diabetes, Type 2 diabetes and obesity, were prepared and formulated. Thus, reacting 2-bromo-1-cyclopropylethanone with 1-phenyl-3-guanylthiourea afforded I [E = Ph; A = a bond; B = CO; D = cyclopropyl] which showed IC50 of < 5 μ M against GSK-3.

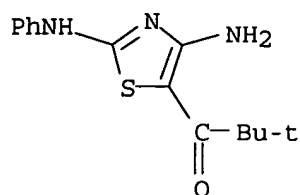
IT **13807-14-2P 223786-60-5P 353511-94-1P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 2,4-diaminothiazoles as GSK-3 inhibitors)
 RN 13807-14-2 HCAPLUS
 CN Ethanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



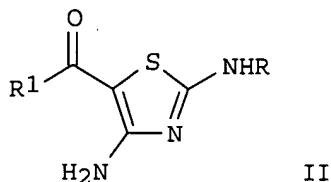
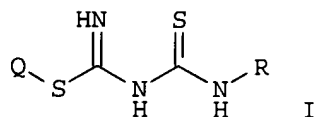
RN 223786-60-5 HCAPLUS
 CN 1-Propanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



RN 353511-94-1 HCAPLUS
 CN 1-Propanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



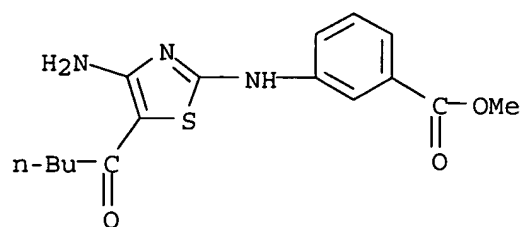
L8 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:836322 HCAPLUS
 DOCUMENT NUMBER: 134:162958
 TITLE: A novel solid-phase approach to 2,4-diaminothiazoles
 AUTHOR(S): Baer, Roman; Masquelin, Thierry
 CORPORATE SOURCE: Department of Chemical Technologies, F. Hoffmann-La Roche AG, Basel, 4070, Switz.
 SOURCE: Journal of Combinatorial Chemistry (2001), 3(1), 16-19
 CODEN: JCCHFF; ISSN: 1520-4766
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:162958
 GI



AB A novel solid-phase synthesis of a 2,4-diaminothiazole library starting from a polymer-bound thiouronium salt is described. The synthetic strategy involves formation of polymer-bound thioureido-thiourea intermediates I (R = Ph, 3-NCC6H4, MeO2CC6H4, 3-MeOC6H4, 4-F3CC6H4, MeO2CCH2, etc.; Q = resin) which by treatment with α -bromo ketones R1COCH2Br (R1 = cyclohexyl, 4-MeOC6H4, 4-FC6H4, naphthyl, 4-BrC6H4, cyclopentyl, 2-pyridinyl, pentyl, etc.) undergoes S-alkylation, followed by a base-catalyzed intramol.-ring closure/cleavage to give 2,4-diaminothiazoles II. This strategy tolerates a wide range of functionality and protecting groups. The novel feature of our method is a polymer-supported auto-scavenging strategy, which provides a clean, high-yielding, and traceless synthesis to 2,4-diaminothiazoles.

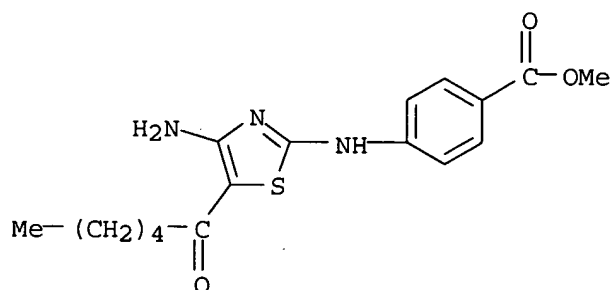
IT **325144-14-7P 325144-16-9P 325144-20-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (solid-phase preparation of diaminothiazole library via cyclization of polymer-bound thioureido-thioureas with bromo ketones)

RN 325144-14-7 HCAPLUS
 CN Benzoic acid, 3-[[4-amino-5-(1-oxopentyl)-2-thiazolyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



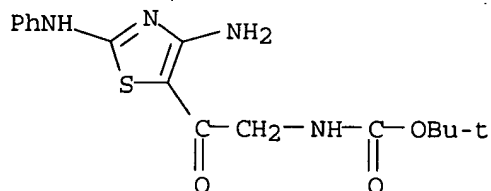
RN 325144-16-9 HCAPLUS

CN Benzoic acid, 4-[[4-amino-5-(1-oxohexyl)-2-thiazolyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



RN 325144-20-5 HCAPLUS

CN Carbamic acid, [2-[4-amino-2-(phenylamino)-5-thiazolyl]-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:297411 HCAPLUS

DOCUMENT NUMBER: 130:325142

TITLE: Preparation of 4-aminothiazole derivatives as inhibitors of cyclin-dependent kinases

INVENTOR(S): Chong, Wesley K. M.; Chu, Shao Song; Duvadie, Rohit R.; Li, Lin; Xiao, Wei; Yang, Yi

PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

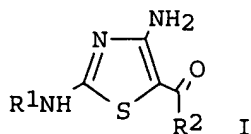
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9921845	A2	19990506	WO 1998-US22809	19981027
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2306082	AA	19990506	CA 1998-2306082	19981027
AU 9913664	A1	19990517	AU 1999-13664	19981027
AU 738792	B2	20010927		
TR 200001081	T2	20001023	TR 2000-200001081	19981027
EP 1056732	A2	20001206	EP 1998-957393	19981027
EP 1056732	B1	20060111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
SI 20324	C	20010228	SI 1998-20068	19981027
EE 200000289	A	20010615	EE 2000-200000289	19981027
BR 9815200	A	20011016	BR 1998-15200	19981027
EP 1215208	A2	20020619	EP 2002-1881	19981027
EP 1215208	A3	20020904		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NZ 503788	A	20021126	NZ 1998-503788	19981027
US 6569878	B1	20030527	US 1998-179744	19981027
NZ 517419	A	20030829	NZ 1998-517419	19981027
JP 2004500304	T2	20040108	JP 2000-517957	19981027
RO 119463	B1	20041130	RO 2000-423	19981027
AT 315553	E	20060215	AT 1998-957393	19981027
NO 2000001955	A	20000616	NO 2000-1955	20000414
LT 4855	B	20011126	LT 2000-33	20000414
HR 2000000222	A1	20010228	HR 2000-222	20000417
MX 200003812	A	20001113	MX 2000-3812	20000418
LV 12592	B	20010720	LV 2000-51	20000503
BG 104478	A	20010228	BG 2000-104478	20000526
BG 64195	B1	20040430		
US 2003220326	A1	20031127	US 2003-388851	20030313
PRIORITY APPLN. INFO.:				
			US 1997-63634P	P 19971027
			US 1997-63666P	P 19971028
			EP 1998-957393	A3 19981027
			NZ 1998-503788	A1 19981027
			US 1998-179744	A3 19981027
			WO 1998-US22809	W 19981027

OTHER SOURCE(S):
GI

MARPAT 130:325142



AB Title compds. [I; wherein R1 is a (un)substituted group selected from: alkyl, alkenyl, alkoxy, alc., carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, cycloalkyl; carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, aryl, etc.; R2 is a carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, ring structure having a substituent at the position adjacent to the point of attachment, which ring structure is optionally further substituted, where each substituent of R independently is a halogen, haloalkyl, C-alkyl, C-alkenyl, C-alkynyl, hydroxyl, C-alkoxy, amino, nitro, thiol, thioether, imine, cyano, amido, phosphonato, phosphine, carboxyl, thiocarbonyl, sulfonyl, sulfonamide, ketone, aldehyde, ester, oxygen, carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, cycloalkyl; or carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, aryl], a pharmaceutically acceptable salt, a prodrug, pharmaceutically active metabolite of title compound, or pharmaceutically acceptable salt thereof, are prepared as inhibitors of cyclin-dependent kinases (CDKs: CDK1, CDK2, CDK4, and CDK6) to the therapeutic or prophylactic use of pharmaceutical compns. containing such compds. and to methods of treating malignancies and other disorders by administering effective amts. of such compds. Thus, I (R1 = C6H5; R2 = 3-NO2C6H4) was prepared with 52% yield from cyanamide, isothiocyanate, and 2-bromo-3'-nitroacetophenone in the presence of sodium.

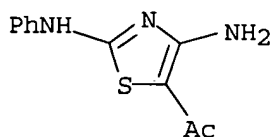
IT 13807-14-2P 223786-58-1P 223786-60-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of 4-aminothiazoles as inhibitors of cyclin-dependent kinases)

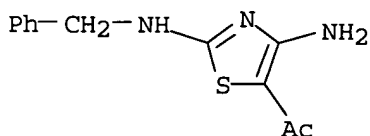
RN 13807-14-2 HCAPLUS

CN Ethanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



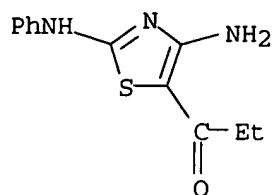
RN 223786-58-1 HCAPLUS

CN Ethanone, 1-[4-amino-2-[(phenylmethyl)amino]-5-thiazolyl]- (9CI) (CA INDEX NAME)



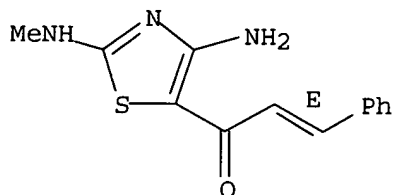
RN 223786-60-5 HCAPLUS

CN 1-Propanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



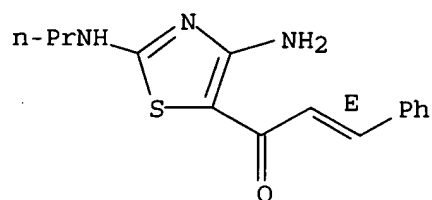
L8 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:589019 HCAPLUS
 DOCUMENT NUMBER: 129:260375
 TITLE: Synthesis of 2,4-diamino-5-cinnamoylthiazoles and their attempted cyclization
 AUTHOR(S): Binu, R.; Deepa, S.; Rajasekharan, K. N.
 CORPORATE SOURCE: Department of Chemistry, University of Kerala, Trivandrum, 695581, India
 SOURCE: Synthetic Communications (1998), 28(19), 3625-3632
 CODEN: SYNCAV; ISSN: 0039-7911
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Synthesis of 4-amino-2-aryl(or alkyl)amino-5-cinnamoylthiazoles by a [(C-N-C-S) + C] ring construction route is reported. Unlike the analogous 2'-aminochalcones, these thiazoles do not cyclize to bicyclic pyridones, nor could they be prepared from the corresponding 5-acetylthiazoles and benzaldehyde.
 IT 213665-79-3P 213665-80-6P 213665-81-7P
 213665-82-8P 213665-83-9P 213665-85-1P
 213665-87-3P 213665-89-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of diaminocinnamoylthiazoles)
 RN 213665-79-3 HCAPLUS
 CN 2-Propen-1-one, 1-[4-amino-2-(methylamino)-5-thiazolyl]-3-phenyl-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 213665-80-6 HCAPLUS
 CN 2-Propen-1-one, 1-[4-amino-2-(propylamino)-5-thiazolyl]-3-phenyl-, (2E)-(9CI) (CA INDEX NAME)

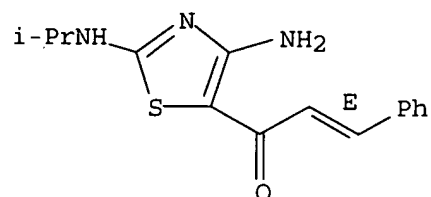
Double bond geometry as shown.



RN 213665-81-7 HCAPLUS

CN 2-Propen-1-one, 1-[4-amino-2-[(1-methylethyl)amino]-5-thiazolyl]-3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

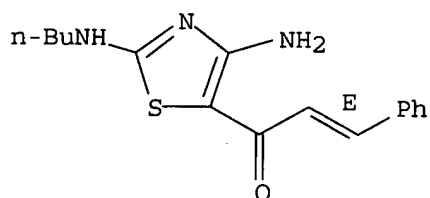
Double bond geometry as shown.



RN 213665-82-8 HCAPLUS

CN 2-Propen-1-one, 1-[4-amino-2-(butylamino)-5-thiazolyl]-3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

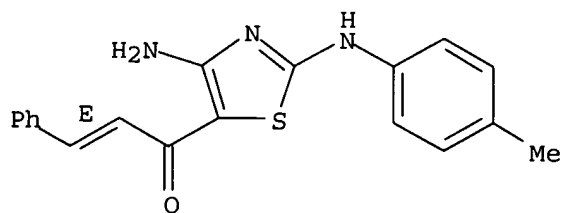
Double bond geometry as shown.



RN 213665-83-9 HCAPLUS

CN 2-Propen-1-one, 1-[4-amino-2-[(4-methylphenyl)amino]-5-thiazolyl]-3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

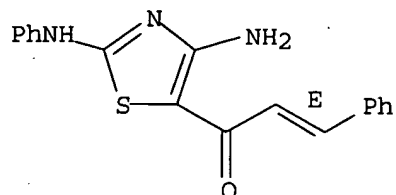
Double bond geometry as shown.



RN 213665-85-1 HCAPLUS

CN 2-Propen-1-one, 1-[4-amino-2-(phenylamino)-5-thiazolyl]-3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

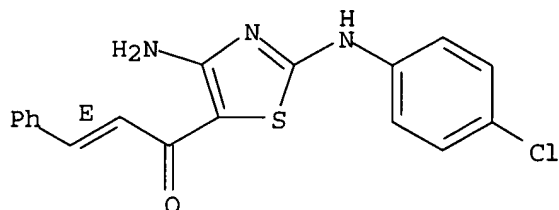
Double bond geometry as shown.



RN 213665-87-3 HCAPLUS

CN 2-Propen-1-one, 1-[4-amino-2-[(4-chlorophenyl)amino]-5-thiazolyl]-3-phenyl-, (2E)-(9CI) (CA INDEX NAME)

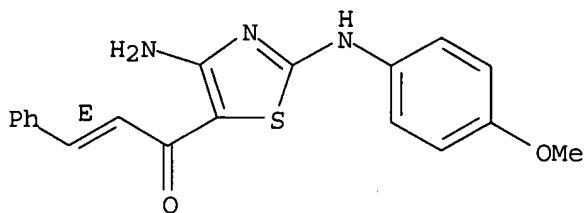
Double bond geometry as shown.



RN 213665-89-5 HCAPLUS

CN 2-Propen-1-one, 1-[4-amino-2-[(4-methoxyphenyl)amino]-5-thiazolyl]-3-phenyl-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

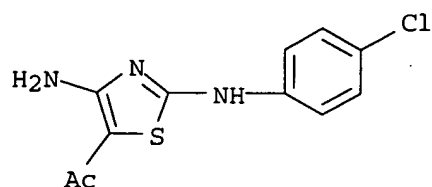


IT 196877-98-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with benzaldehyde)

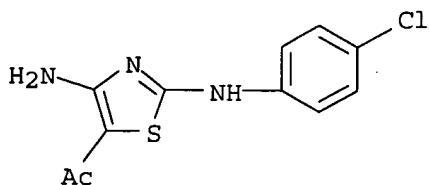
RN 196877-98-2 HCAPLUS

CN Ethanone, 1-[4-amino-2-[(4-chlorophenyl)amino]-5-thiazolyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:621153 HCAPLUS
DOCUMENT NUMBER: 127:278168
TITLE: 1-[(Arylthiocarbamoyl)amidino]-3,5-dimethylpyrazoles.
Preparation and use in heterocycle synthesis
AUTHOR(S): Jenardanan, G. C.; Francis, M.; Deepa, S.;
Rajasekharan, K. N.
CORPORATE SOURCE: Department of Chemistry, University of Kerala,
Trivandrum, 695581, India
SOURCE: Synthetic Communications (1997), 27(19), 3457-3462
CODEN: SYNCAV; ISSN: 0039-7911
PUBLISHER: Dekker
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:278168
AB On reaction with α -haloketones or hydrazine, 1-
[(arylthiocarbamoyl)amidino]-3,5-dimethylpyrazoles (1) afford
2,4-diaminothiazoles and 3,5-diamino-1,2,4-triazoles in good yield. A
convenient route to 1 is also reported.
IT 196877-98-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 196877-98-2 HCAPLUS
CN Ethanone, 1-[4-amino-2-[(4-chlorophenyl)amino]-5-thiazolyl]- (9CI) (CA
INDEX NAME)

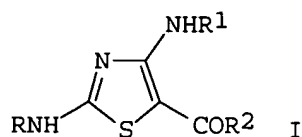


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:138313 HCAPLUS
DOCUMENT NUMBER: 106:138313
TITLE: 5-Acyl-2,4-diaminothiazoles from amidinothioureas
AUTHOR(S): Rajasekharan, K. N.; Nair, K. P.; Jenardanan, G. C.
CORPORATE SOURCE: Dep. Chem., Univ. Kerala, Kerala, 695034, India
SOURCE: Synthesis (1986), (5), 353-5

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:138313
GI

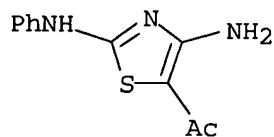
CODEN: SYNTBF; ISSN: 0039-7881



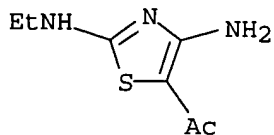
AB Cyclization of RNHC(S)NHC(:NR¹)NHR¹ (R = Ph, o-, p-tolyl, π -anisyl, p-ClC₆H₄, Me, Et, Pr, Me₂CH, Bu; R¹ = Ph, p-tolyl, p-ClC₆H₄, H) with R₂COCH₂Br (R₂ = Ph, p-tolyl, p-ClC₆H₄, p-BrC₆H₄, Me) gave 32-94% thiazoles I.

IT 13807-14-2P 107401-79-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

RN 13807-14-2 HCAPLUS
CN Ethanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)

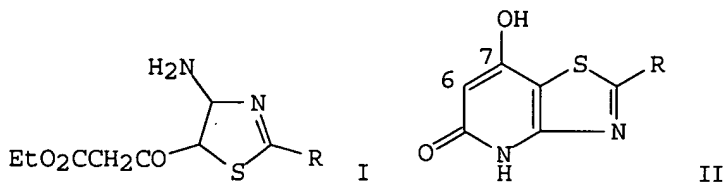


RN 107401-79-6 HCAPLUS
CN Ethanone, 1-[4-amino-2-(ethylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



L8 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:491544 HCAPLUS
DOCUMENT NUMBER: 91:91544
TITLE: Reaction behavior of derivatives of imidodithiocarbonic acid. II. 7-Hydroxythiazolo[4,5-b]pyridin-5-ones
AUTHOR(S): Walek, W.; Goetzschel, K.
CORPORATE SOURCE: Forschungsber. Org. Chem. Pflanzenschutzmittel, VEB Chemiekomb. Bitterfeld, Bitterfeld, DDR-44, Ger. Dem. Rep.
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1979), 321(2), 260-6

DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 91:91544
 GI

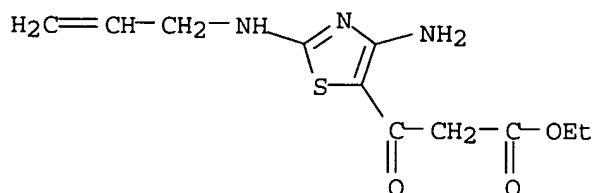


AB Cyclization of -SCR:NCN with BrCH₂COCH₂CO₂Et gave the thiazoles I (R = MeS, EtS, PhCH₂S, EtO, PhNH, etc.) which were cyclized by acid or base to II, which can be alkylated or acylated. The C-7 hydroxy group of II can be substituted by Cl, and sulfonation takes place in at C-6.

IT **70604-13-6P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of)

RN 70604-13-6 HCAPLUS

CN 5-Thiazolepropanoic acid, 4-amino-β-oxo-2-(2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:420492 HCAPLUS

DOCUMENT NUMBER: 91:20492

TITLE: Thiazolo[4,5-b]pyridine-5,7-diols

INVENTOR(S): Goetzschel, Kurt; Kochmann, Werner; Pallas, Manfred; Walek, Wolfgang

PATENT ASSIGNEE(S): VEB Chemiekombinat Bitterfeld, Ger. Dem. Rep.

SOURCE: Ger. (East), 8 pp.
 CODEN: GEXXA8

DOCUMENT TYPE: Patent

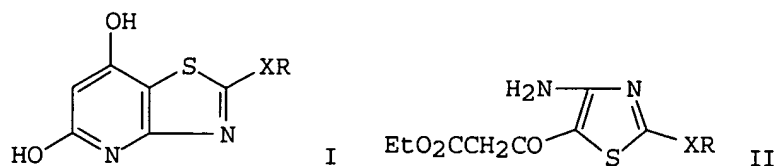
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 131933	Z	19780809	DD 1977-199857	19770704
PRIORITY APPLN. INFO.:			DD 1977-199857	A 19770704

GI



AB Thiazolopyridinediols I (R = aliphatic, aromatic; X = S, NH, O) were prepared by

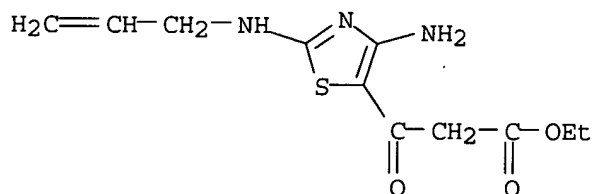
treating MSC(XR):NCN (M = alkali metal) with BrCH₂COCH₂CO₂Et to give the thiazoles II which were cyclized to give I. Thus KSC(SPr):NCN was treated with BrCH₂COCH₂CO₂Et to give 41.5% I (XR = SPr).

IT 70604-13-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and cyclization of)

RN 70604-13-6 HCAPLUS

CN 5-Thiazolepropanoic acid, 4-amino-β-oxo-2-(2-propenylamino)-, ethyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1967:85721 HCAPLUS

DOCUMENT NUMBER: 66:85721

TITLE: 4-Aminothiazoles

AUTHOR(S): Gewald, Karl; Blauschmidt, P.; Mayer, Roland

CORPORATE SOURCE: Tech. Univ., Dresden, Fed. Rep. Ger.

SOURCE: Journal fuer Praktische Chemie (Leipzig) (1967), 35(1-2), 97-104

CODEN: JPCEAO; ISSN: 0021-8383

DOCUMENT TYPE: Journal

LANGUAGE: German

GI For diagram(s), see printed CA Issue.

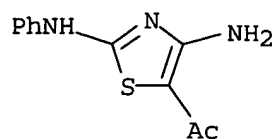
AB [NCN:CS₂]₂- treated with halo acid derivs. as well as with chloromethyl ketones yields S-alkylation and simultaneous cyclization to 4-aminothiazole derivs. (I). Similarly, the cyanoamidothiocarbamates, prepared from cyanamide and isothiocyanates yield substituted 2,4-diaminothiazoles.

IT 13807-14-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and spectrum (ir and uv) of)

RN 13807-14-2 HCAPLUS

CN Ethanone, 1-[4-amino-2-(phenylamino)-5-thiazolyl]- (9CI) (CA INDEX NAME)



=> FIL REGISTRY
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
117.28	451.81

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-13.50	-13.50

CA SUBSCRIBER PRICE

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAR 2006 HIGHEST RN 878899-57-1
DICTIONARY FILE UPDATES: 31 MAR 2006 HIGHEST RN 878899-57-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

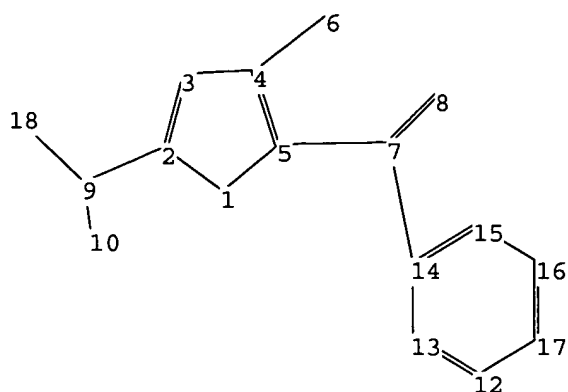
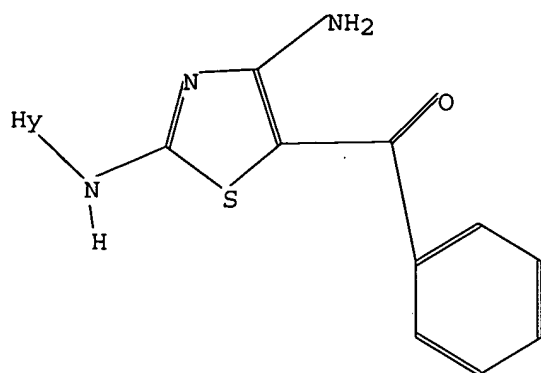
Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10783887b.str



chain nodes :

6 7 8 9 10 18

ring nodes :

1 2 3 4 5 12 13 14 15 16 17

chain bonds :

2-9 4-6 5-7 7-8 7-14 9-10 9-18

ring bonds :

1-2 1-5 2-3 3-4 4-5 12-13 12-17 13-14 14-15 15-16 16-17

exact/norm bonds :

2-3 2-9 3-4 4-6 7-8 9-18

exact bonds :

1-2 1-5 4-5 5-7 7-14 9-10

normalized bonds :

12-13 12-17 13-14 14-15 15-16 16-17

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS

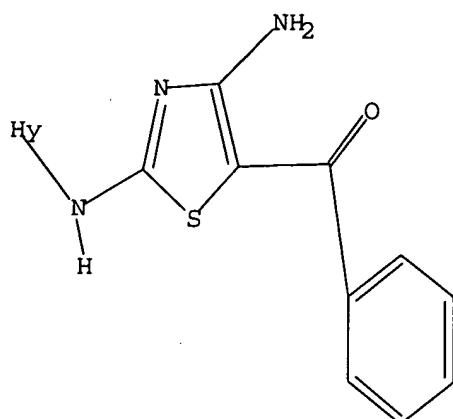
10:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom

L10 STRUCTURE UPLOADED

=> d l10

L10 HAS NO ANSWERS

L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 110

SAMPLE SEARCH INITIATED 13:33:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 157 TO ITERATE

100.0% PROCESSED 157 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2389 TO 3891

PROJECTED ANSWERS: 800 TO 1760

L11 50 SEA SSS SAM L10

=> s 110 sss full

FULL SEARCH INITIATED 13:34:17 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3065 TO ITERATE

100.0% PROCESSED 3065 ITERATIONS

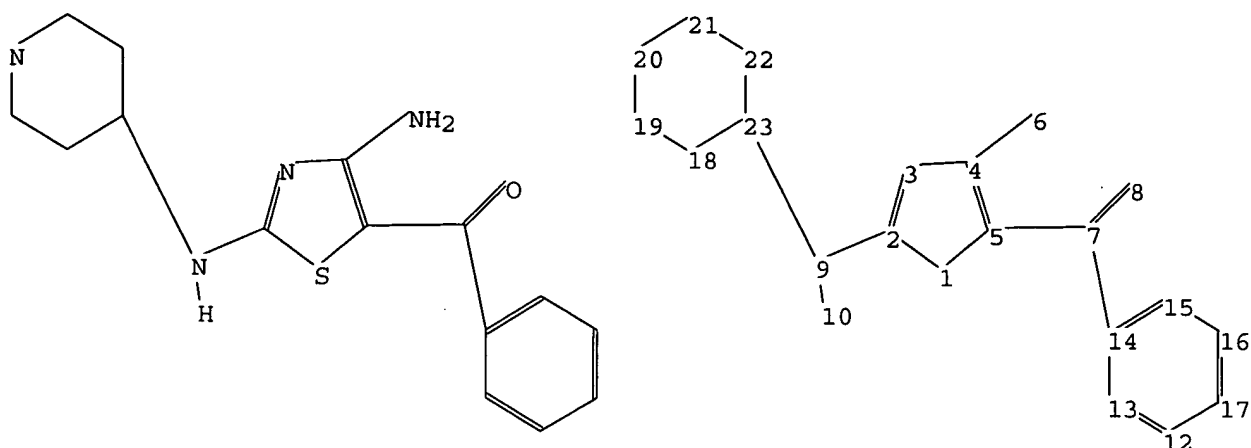
SEARCH TIME: 00.00.01

1188 ANSWERS

L12 1188 SEA SSS FUL L10

=>

Uploading C:\Program Files\Stnexp\Queries\10783887c.str



chain nodes :

6 7 8 9 10

ring nodes :

1 2 3 4 5 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

2-9 4-6 5-7 7-8 7-14 9-10 9-23

ring bonds :

1-2 1-5 2-3 3-4 4-5 12-13 12-17 13-14 14-15 15-16 16-17 18-19 18-23
19-20 20-21 21-22 22-23

exact/norm bonds :

2-3 2-9 3-4 4-6 7-8 9-23 18-19 18-23 19-20 20-21 21-22 22-23

exact bonds :

1-2 1-5 4-5 5-7 7-14 9-10

normalized bonds :

12-13 12-17 13-14 14-15 15-16 16-17

isolated ring systems :

containing 1 : 18 :

Match level :

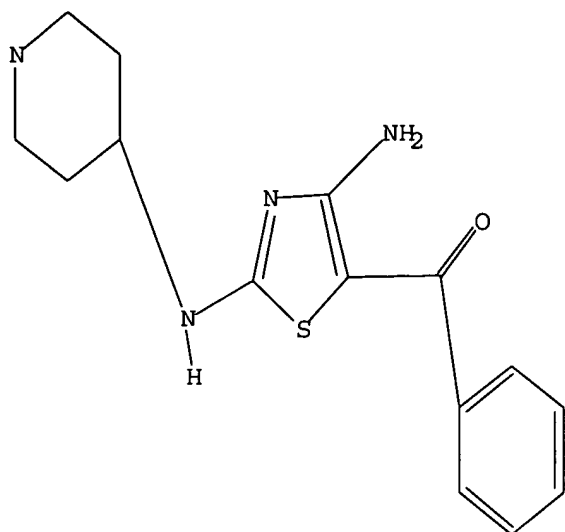
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom

L13 STRUCTURE UPLOADED

=> d l13

L13 HAS NO ANSWERS

L13 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l13 .

SAMPLE SEARCH INITIATED 13:37:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 164 TO ITERATE

100.0% PROCESSED 164 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2512 TO 4048
PROJECTED ANSWERS: 704 TO 1616

L14 50 SEA SSS SAM L13

=> s l13 sss full

FULL SEARCH INITIATED 13:37:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3247 TO ITERATE

100.0% PROCESSED 3247 ITERATIONS
SEARCH TIME: 00.00.01

L15 1115 SEA SSS FUL L13

=> d his

(FILE 'HOME' ENTERED AT 13:25:13 ON 02 APR 2006)

FILE 'REGISTRY' ENTERED AT 13:25:27 ON 02 APR 2006

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 1 S L1 SSS FULL
L4 STRUCTURE UPLOADED

1115 ANSWERS

04/02/2006 10783887.trn

L5 STRUCTURE UPLOADED
L6 3 S L4
L7 40 S L4 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:27:29 ON 02 APR 2006

L8 17 S L7
L9 1 S L3

FILE 'REGISTRY' ENTERED AT 13:33:33 ON 02 APR 2006

L10 STRUCTURE UPLOADED
L11 50 S L10
L12 1188 S L10 SSS FULL
L13 STRUCTURE UPLOADED
L14 50 S L13
L15 1115 S L13 SSS FULL

=> FIL HCAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	336.52	788.33

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-13.50

FILE 'HCAPLUS' ENTERED AT 13:38:08 ON 02 APR 2006

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FILE COVERS 1907 - 2 Apr 2006 VOL 144 ISS 15

FILE LAST UPDATED: 31 Mar 2006 (20060331/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l15

L16 3 L15

=> s l12

L17 13 L12

=> d his

(FILE 'HOME' ENTERED AT 13:25:13 ON 02 APR 2006)

FILE 'REGISTRY' ENTERED AT 13:25:27 ON 02 APR 2006

L1 STRUCTURE UPLOADED
 L2 0 S L1
 L3 1 S L1 SSS FULL
 L4 STRUCTURE UPLOADED
 L5 STRUCTURE UPLOADED
 L6 3 S L4
 L7 40 S L4 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:27:29 ON 02 APR 2006

L8 17 S L7
 L9 1 S L3

FILE 'REGISTRY' ENTERED AT 13:33:33 ON 02 APR 2006

L10 STRUCTURE UPLOADED
 L11 50 S L10
 L12 1188 S L10 SSS FULL
 L13 STRUCTURE UPLOADED
 L14 50 S L13
 L15 1115 S L13 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:38:08 ON 02 APR 2006

~~L16 3 S L15~~
~~L17 13 S L12~~

=> d l16 ibib abs hitstr tot

L16 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:54950 HCAPLUS

DOCUMENT NUMBER: 144:150357

TITLE: Preparation of novel 2,4-diamino-5-benzoylthiazoles as inhibitors of cyclin-dependent kinases for treating cancer

INVENTOR(S): Chen, Li; Chu, Xin-Jie; Lovey, Allen John; Zhao, Chunlin

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005508	A1	20060119	WO 2005-EP7342	20050707
W: AE, AG, AL, AM, AR AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006014958	A1	20060119	US 2005-170636	20050629

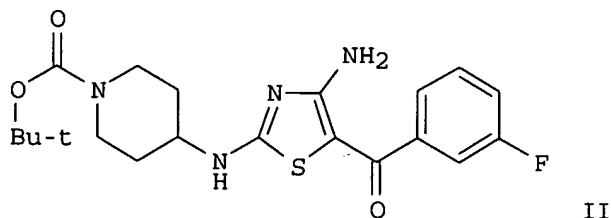
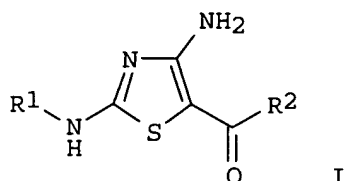
PRIORITY APPLN. INFO.:

US 2004-588184P

P 20040715

OTHER SOURCE(S): MARPAT 144:150357

GI



AB The title compds. I [R1 = alkyl substituted by aryl, 1-(un)substituted 4-piperidinyl, (un)substituted Ph; R2 = (hetero)aryl, cycloalkyl, heterocyclyl, etc.] which inhibit cyclin-dependent kinases, were prepared and formulated. E.g., a multi-step synthesis of II, starting from tert-Bu 4-aminopiperidine-1-carboxylate, was given. The compds. I exhibited cdk4 activity with Ki values of less than 3 μ M, preferably less than 0.5 μ M; cdk2 activity with Ki values of less than 8 μ M, preferably less than 0.5 μ M, and cdk1 activity with Ki values of less than 10 μ M, preferably less than 0.5 μ M. Compds. I and their pharmaceutically acceptable salts and esters have antiproliferative activity and are useful in the treatment or control of cancer, in particular solid tumors. This invention is also directed to pharmaceutical compns. containing such compds. I and to methods of treating or controlling cancer, most particularly the treatment or control of breast, lung, colon and prostate tumors. Also disclosed are intermediates useful in the preparation of these novel 4-aminothiazole derivs.

IT 874114-49-5P 874114-50-8P 874114-51-9P

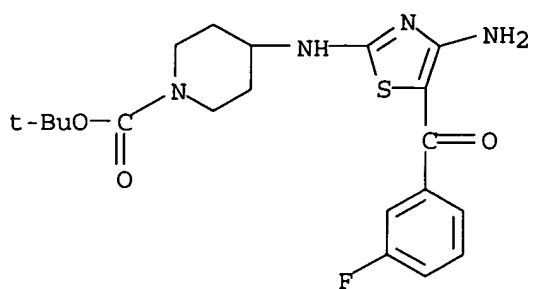
874114-52-0P 874114-53-1P 874114-54-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of novel 2,4-diamino-5-benzoylthiazoles as inhibitors of cyclin-dependent kinases for treating cancer)

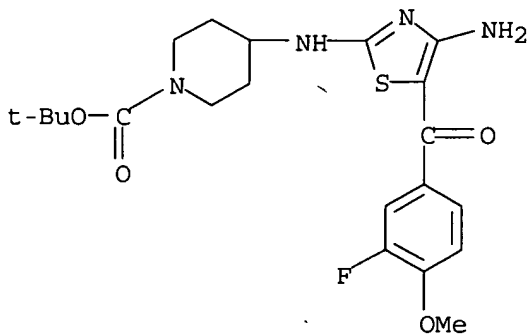
RN 874114-49-5 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-amino-5-(3-fluorobenzoyl)-2-thiazolyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



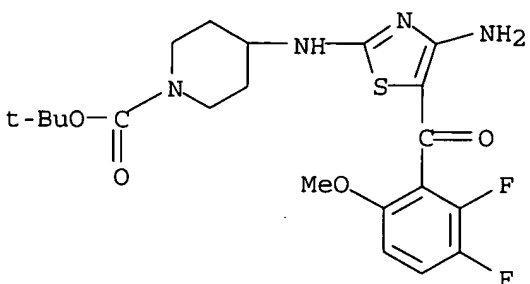
RN 874114-50-8 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-amino-5-(3-fluoro-4-methoxybenzoyl)-2-thiazolyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



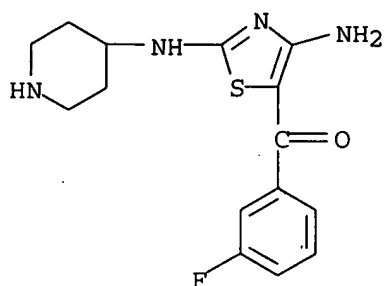
RN 874114-51-9 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-amino-5-(2,3-difluoro-6-methoxybenzoyl)-2-thiazolyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



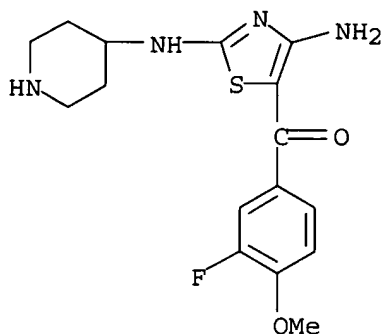
RN 874114-52-0 HCAPLUS

CN Methanone, [4-amino-2-(4-piperidinylamino)-5-thiazolyl] (3-fluorophenyl) - (9CI) (CA INDEX NAME)



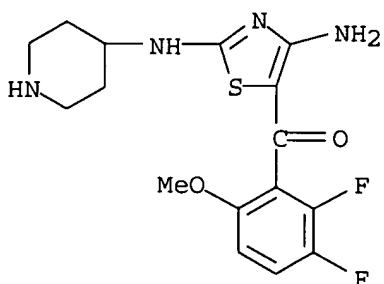
RN 874114-53-1 HCAPLUS

CN Methanone, [4-amino-2-(4-piperidinylamino)-5-thiazolyl] (3-fluoro-4-methoxyphenyl) - (9CI) (CA INDEX NAME)



RN 874114-54-2 HCAPLUS

CN Methanone, [4-amino-2-(4-piperidinylamino)-5-thiazolyl] (2,3-difluoro-6-methoxyphenyl) - (9CI) (CA INDEX NAME)



IT 750574-37-9P 874114-55-3P 874114-56-4P
874114-57-5P 874114-58-6P 874114-59-7P
874114-60-0P

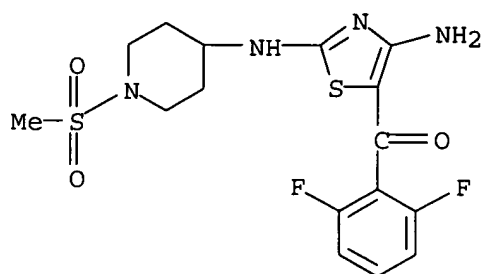
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel 2,4-diamino-5-benzoylthiazoles as inhibitors of cyclin-dependent kinases for treating cancer)

RN 750574-37-9 HCAPLUS

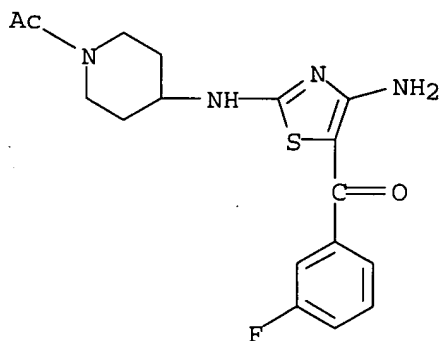
CN 4-Piperidinamine, N-[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]-1-

(methylsulfonyl)- (9CI) (CA INDEX NAME)



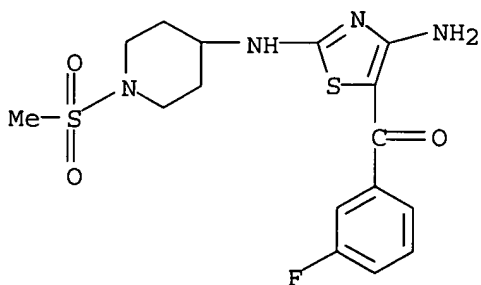
RN 874114-55-3 HCAPLUS

CN 4-Piperidinamine, 1-acetyl-N-[4-amino-5-(3-fluorobenzoyl)-2-thiazolyl]-
(9CI) (CA INDEX NAME)



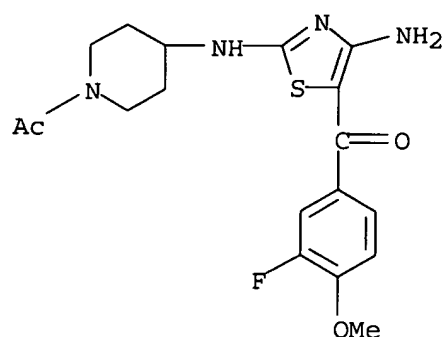
RN 874114-56-4 HCAPLUS

CN 4-Piperidinamine, N-[4-amino-5-(3-fluorobenzoyl)-2-thiazolyl]-1-(
methylsulfonyl)- (9CI) (CA INDEX NAME)



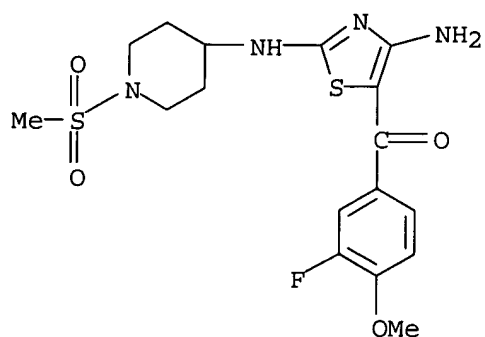
RN 874114-57-5 HCAPLUS

CN 4-Piperidinamine, 1-acetyl-N-[4-amino-5-(3-fluoro-4-methoxybenzoyl)-2-
thiazolyl]- (9CI) (CA INDEX NAME)



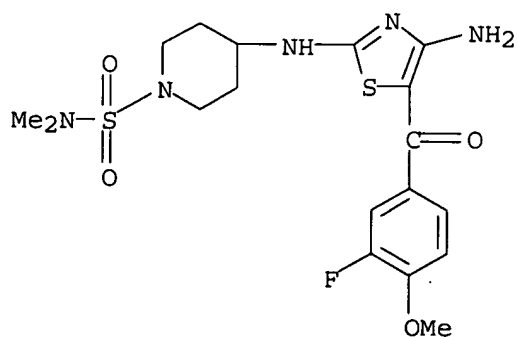
RN 874114-58-6 HCAPLUS

CN 4-Piperidinamine, N-[4-amino-5-(3-fluoro-4-methoxybenzoyl)-2-thiazolyl]-1-(methylsulfonyl)- (9CI) (CA INDEX NAME)



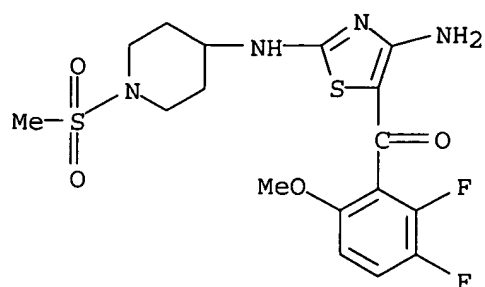
RN 874114-59-7 HCAPLUS

CN 1-Piperidinesulfonamide, 4-[[4-amino-5-(3-fluoro-4-methoxybenzoyl)-2-thiazolyl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 874114-60-0 HCAPLUS

CN 4-Piperidinamine, N-[4-amino-5-(2,3-difluoro-6-methoxybenzoyl)-2-thiazolyl]-1-(methylsulfonyl)- (9CI) (CA INDEX NAME)



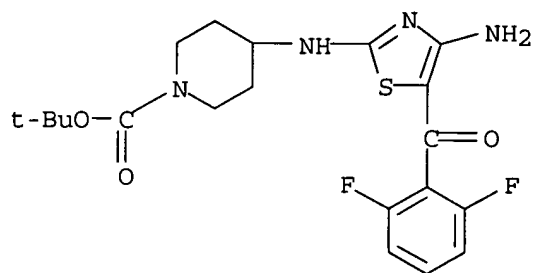
IT 750573-78-5P 874114-62-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of novel 2,4-diamino-5-benzoylthiazoles as inhibitors of cyclin-dependent kinases for treating cancer)

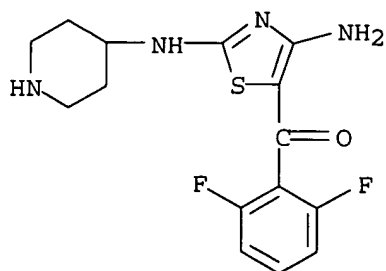
RN 750573-78-5 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 874114-62-2 HCAPLUS

CN Methanone, [4-amino-2-(4-piperidinylamino)-5-thiazolyl] (2,6-difluorophenyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

04/02/2006 10783887.trn

L16 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:718536 HCAPLUS

DOCUMENT NUMBER: 141:243546

TITLE: Preparation of N-heterocycl-yl-substituted
amino-thiazole derivatives as protein kinase
inhibitors

INVENTOR(S): Alegria, Larry Andrew; Chong, Wesley Kwan Mung; Chu,
Shaosong; Duvadie, Rohit Kumar; Li, Lin; Romines,
~~William Henry, III; Yang, Vi~~

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 307 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

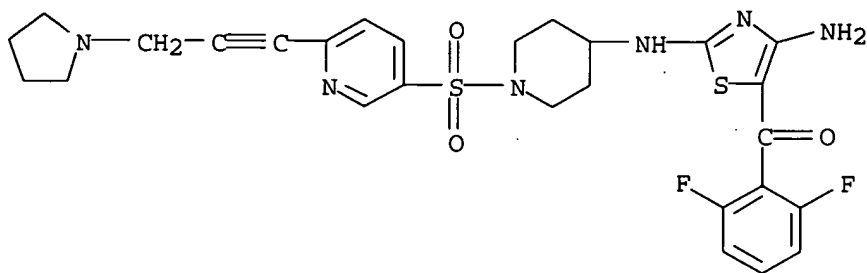
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074283	A1	20040902	WO 2004-IB433	20040209
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2516234	AA	20040902	CA 2004-2516234	20040209
EP 1597256	A1	20051123	EP 2004-709302	20040209
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 2005101595	A1	20050512	US 2004-783887	20040220
PRIORITY APPLN. INFO.:			US 2003-448843P	P 20030221
			WO 2004-IB433	W 20040209

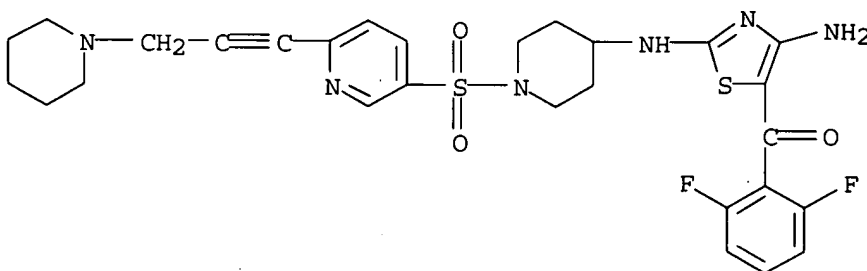
OTHER SOURCE(S): MARPAT 141:243546

GI



RN 750585-16-1 HCAPLUS

CN 4-Piperidinamine, N-[4-amino-5-(2,6-difluorobenzoyl)-2-thiazolyl]-1-[[6-[3-(1-piperidinyl)-1-propynyl]-3-pyridinyl]sulfonyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:117812 HCAPLUS

DOCUMENT NUMBER: 138:187762

TITLE: Preparation of novel 2,4-diaminothiazoles as glycogen synthase kinase-3 (GSK-3) inhibitors

INVENTOR(S): Bowler, Andrew Neil; Hansen, Bo Falck

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011843	A1	20030213	WO 2002-DK508	20020722
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG

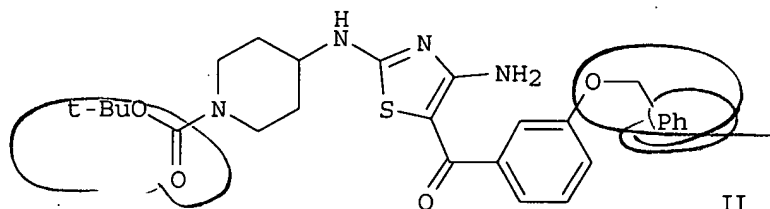
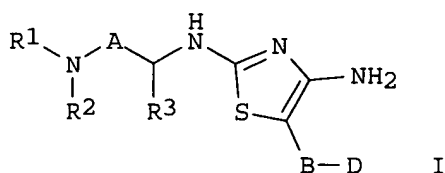
CA 2455753	AA	20030213	CA 2002-2455753	20020722
EP 1417188	A1	20040512	EP 2002-750845	20020722
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011626	A	20040824	BR 2002-11626	20020722
CN 1547574	A	20041117	CN 2002-816635	20020722
JP 2004538315	T2	20041224	JP 2003-517035	20020722
ZA 2004000733	A	20040824	ZA 2004-733	20040129
US 2004210063	A1	20041021	US 2004-770705	20040203
NO 2004000913	A	20040401	NO 2004-913	20040302

PRIORITY APPLN. INFO.:

DK 2001-1175	A	20010803
US 2001-309953P	P	20010803
WO 2002-DK508	W	20020722

OTHER SOURCE(S): MARPAT 138:187762

GI



AB The title compds. I [A = a bond, alkylene; NR₁R₂ = (un)substituted 5-7 membered non-aromatic ring, which may contain a double bond and addnl. N atom; or R₁ = H, alkyl, arylalkyl, etc. and R₂ and R₃ are connected to form, together with A and the N atom and C atom, resp., to which they are attached, a 5-7 membered non-aromatic ring; or R₁, R₂ = H, CO₂alkyl, alkyl, etc.; R₃ = H; B = a bond, CO, SO, SO₂; D = OH, halo, CN, etc.] which inhibit GSK-3 (glycogen synthase kinase-3) and therefore may be useful for the treatment of disorders, syndromes, diseases and conditions, wherein an inhibition of GSK-3 (glycogen synthase kinase-3) is beneficial, especially IGT (impaired glucose tolerance), type 1 diabetes, type 2 diabetes, obesity, Alzheimer's disease and bipolar disorder, were prepared and formulated. Thus, reacting 1-(3-benzyloxyphenyl)-2-bromoethanone with N-Boc-isothiocyanatopropylamine afforded II which showed IC₅₀ of < 1 μM against GSK-3.

IT 496954-38-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of novel 2,4-diaminothiazoles as glycogen synthase kinase-3 (GSK-3) inhibitors)

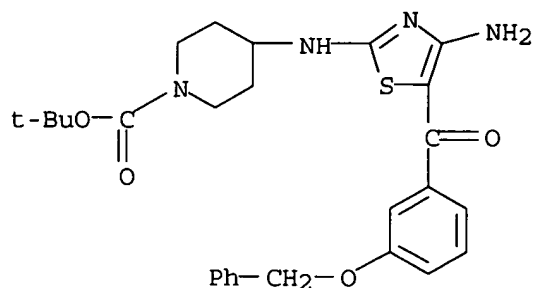
RN 496954-38-2 HCAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[4-amino-5-[3-(phenylmethoxy)benzoyl]-2-

04/04/2006

10783887.trn

thiazolyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 496954-51-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel 2,4-diaminothiazoles as glycogen synthase kinase-3 (GSK-3) inhibitors)

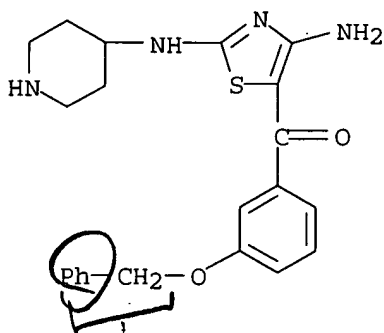
RN 496954-51-9 HCAPLUS

CN Methanone, [4-amino-2-(4-piperidinylamino)-5-thiazolyl][3-(phenylmethoxy)phenyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 496954-50-8

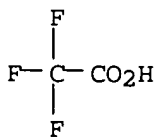
CMF C22 H24 N4 O2 S



CM 2

CRN 76-05-1

CMF C2 H F3 O2



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 116 ibib abs tot

L16 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:54950 HCAPLUS

DOCUMENT NUMBER: 144:150357

TITLE: Preparation of novel 2,4-diamino-5-benzoylthiazoles as inhibitors of cyclin-dependent kinases for treating cancer

INVENTOR(S): Chen, Li; Chu, Xin-Jie; Lovey, Allen John; Zhao, Chunlin

PATENT ASSIGNEE(S): F.Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

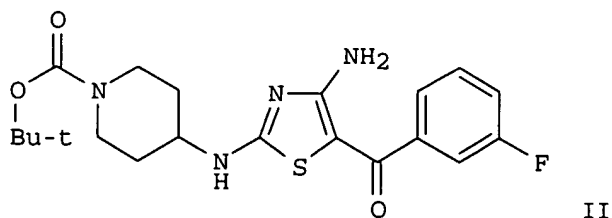
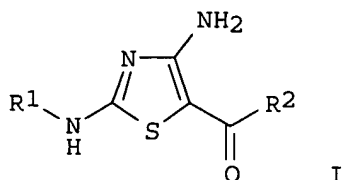
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005508	A1	20060119	WO 2005-EP7342	20050707
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 2006014958	A1	20060119	US 2005-170636	20050629
PRIORITY APPLN. INFO.:			US 2004-588184P	P 20040715
OTHER SOURCE(S):	MARPAT 144:150357			
GI				



AB The title compds. I [R1 = alkyl substituted by aryl, 1-(un)substituted 4-piperidinyl, (un)substituted Ph; R2 = (hetero)aryl, cycloalkyl, heterocyclyl, etc.] which inhibit cyclin-dependent kinases, were prepared and formulated. E.g., a multi-step synthesis of II, starting from tert-Bu 4-aminopiperidine-1-carboxylate, was given. The compds. I exhibited cdk4 activity with Ki values of less than 3 μ M, preferably less than 0.5 μ M; cdk2 activity with Ki values of less than 8 μ M, preferably less than 0.5 μ M, and cdk1 activity with Ki values of less than 10 μ M, preferably less than 0.5 μ M. Compds. I and their pharmaceutically acceptable salts and esters have antiproliferative activity and are useful in the treatment or control of cancer, in particular solid tumors. This invention is also directed to pharmaceutical compns. containing such compds. I and to methods of treating or controlling cancer, most particularly the treatment or control of breast, lung, colon and prostate tumors. Also disclosed are intermediates useful in the preparation of these novel 4-aminothiazole derivs.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:718536 HCAPLUS

DOCUMENT NUMBER: 141:243546

TITLE: Preparation of N-heterocyclyl-substituted amino-thiazole derivatives as protein kinase inhibitors

INVENTOR(S): Alegria, Larry Andrew; Chong, Wesley Kwan Mung; Chu, Shaosong; Duvadie, Rohit Kumar; Li, Lin; Romines, William Henry, III; Yang, Yi

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 307 pp.

CODEN: PIXXD2

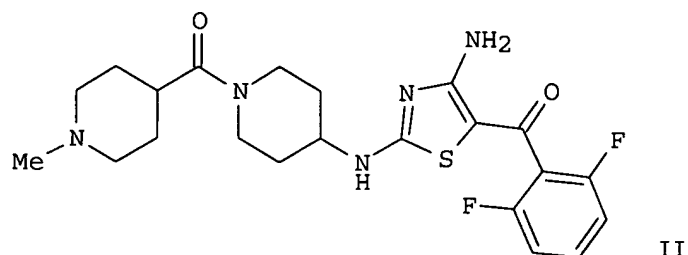
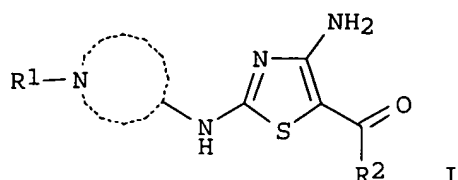
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074283	A1	2004-09-02	WO 2004-IB433	20040209
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2516234	AA	20040902	CA 2004-2516234	20040209
EP 1597256	A1	20051123	EP 2004-709302	20040209
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005101595	A1	20050512	US 2004-783887	20040220
PRIORITY APPLN. INFO.:			US 2003-448843P	P 20030221
			WO 2004-IB433	W 20040209
OTHER SOURCE(S):		MARPAT 141:243546		
GI				



AB The title aminothiazole compds. with N-containing cycloalkyl at the 2-amino position [I; N-containing heterocyclyl = (un)substituted N-containing 3-10 membered heterocyclyl; R1 = H, alkyl, alkenyl, alkoxy, etc.; R2 = (un)substituted alkyl, cycloalkyl, alkoxy, aryl, 4-10 membered heterocyclyl] and their pharmaceutically acceptable prodrugs or salts which modulate and/or inhibit the cell proliferation and activity of protein kinases, were prepared Thus, reacting [4-amino-2-(piperidin-4-ylamino)thiazol-5-yl] (2,6-difluorophenyl)methanone (preparation given) with 1-methylpiperidine-4-carboxylic acid afforded 65% II which showed Ki of 0.46 μ M against CDK2, Ki of 0.13 μ M against CDK4, and IC50 of >5 μ M in HCT-116 assay for cell growth inhibition. Biol. data were given for over 1100 compds. I. The pharmaceutical compns. comprising the compound I are claimed.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:117812 HCAPLUS

DOCUMENT NUMBER: 138:187762

TITLE: Preparation of novel 2,4-diaminothiazoles as glycogen synthase kinase-3 (GSK-3) inhibitors

INVENTOR(S): Bowler, Andrew Neil; Hansen, Bo Falck

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

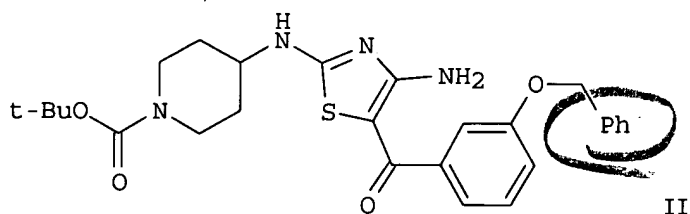
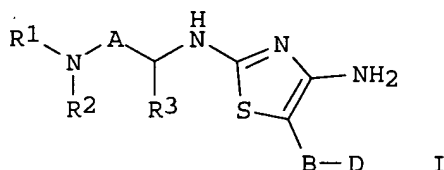
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011843	A1	20030213	WO 2002-DK508	20020722
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
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 PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG

CA 2455753	AA	20030213	CA 2002-2455753	20020722
EP 1417188	A1	20040512	EP 2002-750845	20020722
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011626	A	20040824	BR 2002-11626	20020722
CN 1547574	A	20041117	CN 2002-816635	20020722
JP 2004538315	T2	20041224	JP 2003-517035	20020722
ZA 2004000733	A	20040824	ZA 2004-733	20040129
US 2004210063	A1	20041021	US 2004-770705	20040203
NO 2004000913	A	20040401	NO 2004-913	20040302
PRIORITY APPLN. INFO.:			DK 2001-1175	A 20010803
			US 2001-309953P	P 20010803
			WO 2002-DK508	W 20020722

OTHER SOURCE(S): MARPAT 138:187762
 GI



AB The title compds. I [A = a bond, alkylene; NR1R2 = (un)substituted 5-7 membered non-aromatic ring, which may contain a double bond and addnl. N atom; or R1 = H, alkyl, arylalkyl, etc. and R2 and R3 are connected to form , together with A and the N atom and C atom, resp., to which they are attached, a 5-7 membered non-aromatic ring; or R1, R2 = H, CO2alkyl, alkyl, etc.; R3 = H; B = a bond, CO, SO, SO2; D = OH, halo, CN, etc.] which inhibit GSK-3 (glycogen synthase kinase-3) and therefore may be useful for the treatment of disorders, syndromes, diseases and conditions, wherein an inhibition of GSK-3 (glycogen synthase kinase-3) is beneficial, especially IGT (impaired glucose tolerance), type 1 diabetes, type 2 diabetes, obesity, Alzheimer's disease and bipolar disorder, were prepared and formulated. Thus, reacting 1-(3-benzyloxyphenyl)-2-bromoethanone with N-Boc-isothiocyanatopropylamine afforded II which showed IC50 of < 1 μ M against GSK-3.

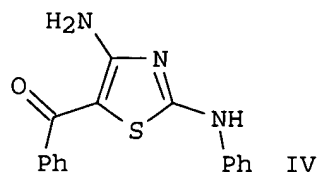
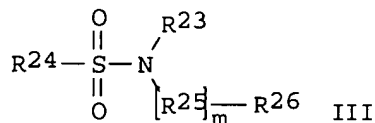
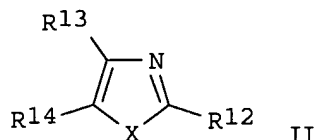
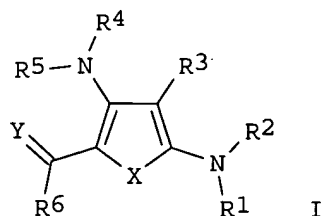
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L17 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2006:170742 HCAPLUS
 DOCUMENT NUMBER: 144:254120
 TITLE: Preparation of thiophene and thiazole derivatives as PDE4B inhibitors
 INVENTOR(S): Ibrahim, Prabha N.; Cho, Hanna; England, Bruce; Gillette, Sam; Artis, Dean R.; Zuckerman, Rebecca; Zhang, Chao
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 205 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006041006	A1	20060223	US 2005-123893	20050506
PRIORITY APPLN. INFO.: GI			US 2004-569435P	P 20040506



AB The title compds. I [X = O, S, NR7; R1-R2, R4-R5, R7 = H, acyl, alkyl, etc.; R3 = CN, NO2, alkyl, etc.; Y = O, S; R6 = OH, alkoxy, thioalkoxy, etc.], II [X = S, O, NR15; R12 = H, alkyl, aryl, etc.; R13 = OR16, SR16, (un)substituted amino; R14 = OR16, SR16, alkyl, etc.; R15 = H, alkyl, cycloalkyl, etc.; R16 = alkyl, cycloalkyl, aryl, etc.] and III [R23 = H, alkyl, cycloalkyl, etc.; R24 = alkyl, cycloalkyl, aryl, etc.; R25, if present, is (un)substituted alkylene; R26 = (un)substituted carbocyclic or heterocyclic having 3-14 ring atoms; m = 0-3; with provisions] which are active on phosphodiesterase PDE4B are provided. E.g., a multi-step

synthesis of IV, starting from 2-(4-chlorobenzyl)-2-thiopseudourea hydrochloride and Ph isothiocyanate, was given. The compound I-III were tested against various PDE4 kinases and TNF α (biol. data given). Also provided are compns. comprising compds. I-III which are useful for treatment of PDE4B-mediated diseases or conditions, and methods for the use thereof.

L17 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:54950 HCAPLUS

DOCUMENT NUMBER: 144:150357

TITLE: Preparation of novel 2,4-diamino-5-benzoylthiazoles as inhibitors of cyclin-dependent kinases for treating cancer

INVENTOR(S): Chen, Li; Chu, Xin-Jie; Lovey, Allen John; Zhao, Chunlin

PATENT ASSIGNEE(S): F.Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

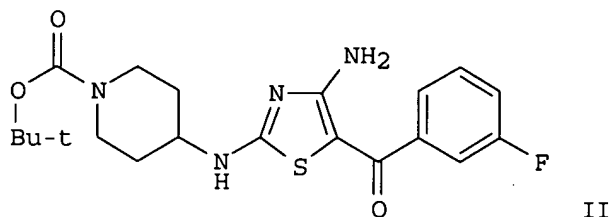
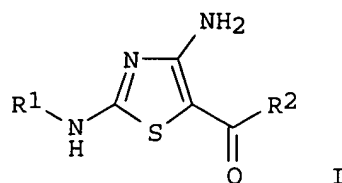
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005508	A1	20060119	WO 2005-EP7342	20050707
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 2006014958	A1	20060119	US 2005-170636	20050629
PRIORITY APPLN. INFO.:			US 2004-588184P	P 20040715
OTHER SOURCE(S):	MARPAT 144:150357			

GI



AB The title compds. I [R1 = alkyl substituted by aryl, 1-(un)substituted 4-piperidinyl, (un)substituted Ph; R2 = (hetero)aryl, cycloalkyl, heterocyclyl, etc.] which inhibit cyclin-dependent kinases, were prepared and formulated. E.g., a multi-step synthesis of II, starting from tert-Bu 4-aminopiperidine-1-carboxylate, was given. The compds. I exhibited cdk4 activity with Ki values of less than 3 μ M, preferably less than 0.5 μ M; cdk2 activity with Ki values of less than 8 μ M, preferably less than 0.5 μ M, and cdk1 activity with Ki values of less than 10 μ M, preferably less than 0.5 μ M. Compds. I and their pharmaceutically acceptable salts and esters have antiproliferative activity and are useful in the treatment or control of cancer, in particular solid tumors. This invention is also directed to pharmaceutical compns. containing such compds. I and to methods of treating or controlling cancer, most particularly the treatment or control of breast, lung, colon and prostate tumors. Also disclosed are intermediates useful in the preparation of these novel 4-aminothiazole derivs.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:612019 HCAPLUS

DOCUMENT NUMBER: 143:92536

TITLE: Preparation of 2,4-diaminothiazole derivatives as plant growth regulators

INVENTOR(S): Bastiaans, Henricus M. M.; Donn, Guenter; Knittel, Nathalie; Martelletti, Arianna; Rees, Richard; Schwall, Michael; Whitford, Ryan

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005063022	A1	20050714	WO 2004-EP14262	20041215
W: AE, AG, AL, AM, AT, AU , AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1550372 A1 20050706 EP 2003-29844 20031224

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

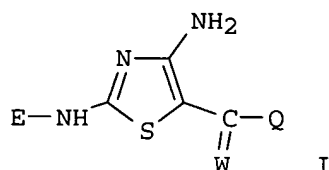
PRIORITY APPLN. INFO.:

EP 2003-29844 A 20031224

EP 2004-11253 A 20040512

OTHER SOURCE(S): MARPAT 143:92536

GI



AB The 2,4-diaminothiazole derivs. I [E = (un)substituted alkyl, alkenyl, alkynyl, furfuryl, isoxazolyl, etc.; W =, O, NOH. etc.; Q = (un)substituted cycloalkyl, cycloalkylalkyl, aryl, etc.] are prepared as plant growth regulators.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:582483 HCAPLUS

DOCUMENT NUMBER: 143:73303

TITLE: Preparation of 2,4-diaminothiazole derivatives as plant growth regulators

INVENTOR(S): Bastiaans, Henricus M. M.; Donn, Guenter; Knittel, Nathalie; Martelletti, Arianna; Rees, Richard; Schwall, Michael; Whitford, Ryan

PATENT ASSIGNEE(S): Bayer CropScience G.m.b.H., Germany

SOURCE: Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1550372	A1	20050706	EP 2003-29844	20031224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2005063022	A1	20050714	WO 2004-EP14262	20041215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

EP 2003-29844

A 20031224

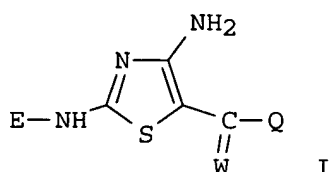
EP 2004-11253

A 20040512

OTHER SOURCE(S):

MARPAT 143:73303

GI



AB The 2,4-diamino-5-substituted-thiazole derivs. I [E = alkyl, alkenyl, alkynyl, alkoxy carbonyl, Ph, pyridinyl, etc.; W = O, NOH, etc.; Q = (un)substituted cycloalkyl, cycloalkylalkyl, etc.] are prepared as plant growth regulators.

REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:140809 HCAPLUS

DOCUMENT NUMBER: 142:240423

TITLE: A preparation of antiproliferative
 2-(heteroaryl)aminothiazole derivatives

INVENTOR(S): Chong, Wesley Kwan Mung; Duvadie, Rohit Kumar; Li,
 Lin; Yang, Yi

PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005038078	A1	20050217	US 2003-639219	20030811
US 2005176773	A1	20050811	US 2005-105939	20050413
PRIORITY APPLN. INFO.:			US 2003-639219	A3 20030811
OTHER SOURCE(S):	MARPAT 142:240423			

GI

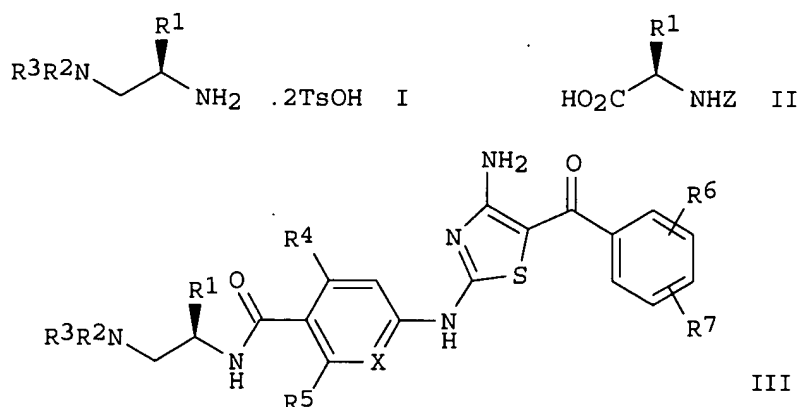
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to a preparation of 2-(heteroaryl)aminothiazole derivs. of formula I [wherein: R1 is H, alk(en/yn)yl, alkylamino, aryl, or cycloalkyl; R2 and R5 are independently selected from H, halogen, alkyl, NH2, SMe, or NO2, etc.; R3 and R4 are independently selected from H, halogen, methoxy, or alkyl], useful as antiproliferative agents. For instance, nicotinamide derivative II (inhibition of HCT-116 cell growth: IC50 = 0.007 μ M) was prepared via amidation of nicotinic acid derivative III by (N-methyl-pyrrolidin-2S-yl)methylamine with a yield of 60%.

L17 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:99173 HCAPLUS
 DOCUMENT NUMBER: 142:197575
 TITLE: Process for preparation of chiral 1,2-diaminopropanes and thiazole compounds containing them.
 INVENTOR(S): Kucera, David John; Yvon, Brigitte Leigh
 PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 20 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005026966	A1	20050203	US 2003-631358	20030730
PRIORITY APPLN. INFO.:			US 2003-631358	20030730
OTHER SOURCE(S):	CASREACT 142:197575; MARPAT 142:197575			

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AB Title compds. [I; R1-R3 = H, (substituted) alkyl, heteroalkyl, (CR13R14)tX; t = 1-5; X = aryl, cycloalkyl, heterocyclyl; R13, R14 = H, alkyl, heteroalkyl], were prepared by treatment of amino acid derivs. (II) with R2R3NH (R1-R3 as above) to give the corresponding amides followed by N-deprotection, reduction, and conversion to the tosylate salts. I are intermediates in preparation of thiazole derivs. (III; R1-R3 as above; R4, R5 = H, halo, alkyl, OMe, OH, NH2, NHMe, NMe2, NO2, SH, SMe, SOMe, SO2Me, PMe2, PO3H2; R6, R7 = H, halo, MeO, alkyl; X = C, N). Thus, Z-D-Ala-OH and HOBt.H2O in MeCN at -3° were treated with DCC in MeCN and then with Me2NH.HCl and diisopropylethylamine followed by stirring at 0° for

1.5 h, warming to room temperature, and stirring overnight to give 79% N-benzyloxycarbonyl-D-alanine dimethylamide. The latter was hydrogenolyzed in EtOH over Pd/C at 45 psi H₂ to give 83% D-alanine dimethylamide. This was refluxed 17 h with LiAlH₄ in THF followed by salification with p-TsOH to give 69.5% (R)-1-dimethylaminoprop-2-ylamine bistosylate.

L17 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:718536 HCAPLUS

DOCUMENT NUMBER: 141:243546

TITLE: Preparation of N-heterocycl-yl-substituted amino-thiazole derivatives as protein kinase inhibitors

INVENTOR(S): Alegria, Larry Andrew; Chong, Wesley Kwan Mung; Chu, Shaosong; Duvadie, Rohit Kumar; Li, Lin; Romines, William Henry, III; Yang, Yi

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 307 pp.

CODEN: PIXXD2

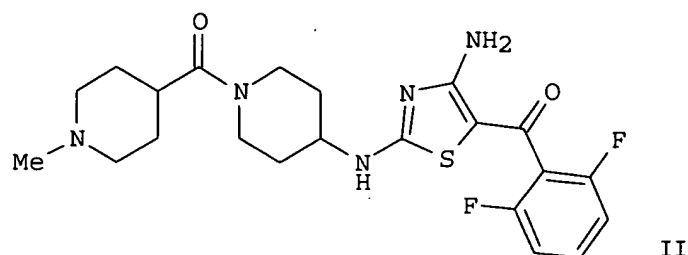
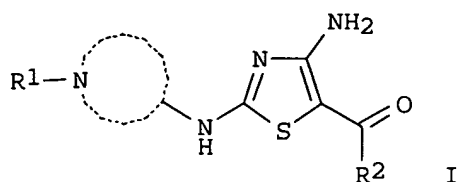
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074283	A1	20040902	WO 2004-IB433	20040209
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2516234	AA	20040902	CA 2004-2516234	20040209
EP 1597256	A1	20051123	EP 2004-709302	20040209
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 2005101595	A1	20050512	US 2004-783887	20040220
PRIORITY APPLN. INFO.:			US 2003-448843P	P 20030221
			WO 2004-IB433	W 20040209
OTHER SOURCE(S):	MARPAT 141:243546			
GI				



AB The title aminothiazole compds. with N-containing cycloalkyl at the 2-amino position [I; N-containing heterocyclyl = (un)substituted N-containing 3-10 membered heterocyclyl; R1 = H, alkyl, alkenyl, alkoxy, etc.; R2 = (un)substituted alkyl, cycloalkyl, alkoxy, aryl, 4-10 membered heterocyclyl] and their pharmaceutically acceptable prodrugs or salts which modulate and/or inhibit the cell proliferation and activity of protein kinases, were prepared Thus, reacting [4-amino-2-(piperidin-4-ylamino)thiazol-5-yl] (2,6-difluorophenyl)methanone (preparation given) with 1-methylpiperidine-4-carboxylic acid afforded 65% II which showed Ki of 0.46 μ M against CDK2, Ki of 0.13 μ M against CDK4, and IC50 of >5 μ M in HCT-116 assay for cell growth inhibition. Biol. data were given for over 1100 compds. I. The pharmaceutical compns. comprising the compound I are claimed.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:143146 HCAPLUS

DOCUMENT NUMBER: 140:181441

TITLE: Preparation of antiproliferative 2-(pyridylamino)thiazole compounds

INVENTOR(S): Chong, Wesley Kwan Mung; Duvadie, Rohit Kumar; Li, Lin; Yang, Yi

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

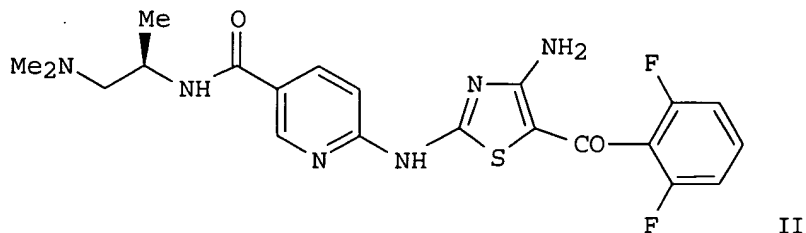
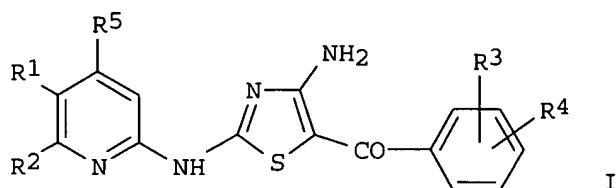
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004014904	A1	20040219	WO 2003-IB3181	20030729
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
 PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003282231 A1 20040225 AU 2003-282231 20030729
 PRIORITY APPLN. INFO.: US 2002-402408P P 20020809
 WO 2003-IB3181 W 20030729
 OTHER SOURCE(S): MARPAT 140:181441
 GI



AB Thiazole derivs. of formula I [R1 = H, alkenyl, alkylamino, aryl, heteroaryl, cycloalkyl, etc.; R2, R5 = H, halo, alkyl, OMe, OH, amino, SH, SMe, etc.; R3, R4 = H, halo, OMe, alkyl] are prepared. The compds. and pharmaceutical compns. containing them may be used in inhibiting and/or modulating protein kinases, in treating or preventing diseases associated with protein kinases, and/or in treating or preventing cellular proliferative diseases. Thus, II was prepared, and had IC50 and IC90 of 0.0026 and 0.0057 μ M resp. against HCT-116 cells.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:261970 HCAPLUS

DOCUMENT NUMBER: 138:281150

TITLE: Inhibitors of glycogen synthase kinase-3 for treating glaucoma

INVENTOR(S): Hellberg, Mark R.; Clark, Abbot F.; Pang, Iok-Hou; Hellberg, Peggy Elizabeth; McNatt, Loretta Graves; Wang, Wan-Heng

PATENT ASSIGNEE(S): Alcon, Inc., Switz.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027275	A1	20030403	WO 2002-US30059	20020923
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
CA 2460000	AA	20030403	CA 2002-2460000	20020923
EP 1430120	A1	20040623	EP 2002-799603	20020923
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012924	A	20050104	BR 2002-12924	20020923
JP 2005504101	T2	20050210	JP 2003-530847	20020923
US 2004186159	A1	20040923	US 2004-488496	20040302
ZA 2004001846	A	20050307	ZA 2004-1846	20040305
JP 2005320350	A2	20051117	JP 2005-211956	20050721
PRIORITY APPLN. INFO.:			US 2001-325390P	P 20010927
			JP 2003-530847	A3 20020923
			WO 2002-US30059	W 20020923

OTHER SOURCE(S): MARPAT 138:281150

AB The use of inhibitors of glycogen synthase kinase-3 (GSK-3) useful for treating glaucoma is disclosed. The inhibitors are selected from the group consisting of indirubine analogs, 2,4-diaminothiazole analogs, 1,2,4-triazolecarboxylic acid derivs. or analogs, hymenialdesine or derivs. or analogs, and paullone analogs. Preferred inhibitors comprise 3-(1-[3-aminopropyl]-3-indolyl)-4-(2-chlorophenyl)pyrrole-2,5-dione and 3-(1-[3-hydroxypropyl]-3-indolyl)-4-(2-chlorophenyl)pyrrole-2,5-dione. The compds. are formulated in pharmaceutical compns. suitable for topical delivery to the eye.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:117812 HCAPLUS

DOCUMENT NUMBER: 138:187762

TITLE: Preparation of novel 2,4-diaminothiazoles as glycogen synthase kinase-3 (GSK-3) inhibitors

INVENTOR(S): Bowler, Andrew Neil; Hansen, Bo Falck

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011843	A1	20030213	WO 2002-DK508	20020722
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG

CA 2455753 AA 20030213 CA 2002-2455753 20020722

EP 1417188 A1 20040512 EP 2002-750845 20020722

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

BR 2002011626 A 20040824 BR 2002-11626 20020722

CN 1547574 A 20041117 CN 2002-816635 20020722

JP 2004538315 T2 20041224 JP 2003-517035 20020722

ZA 2004000733 A 20040824 ZA 2004-733 20040129

US 2004210063 A1 20041021 US 2004-770705 20040203

NO 2004000913 A 20040401 NO 2004-913 20040302

PRIORITY APPLN. INFO.:

DK 2001-1175 A 20010803

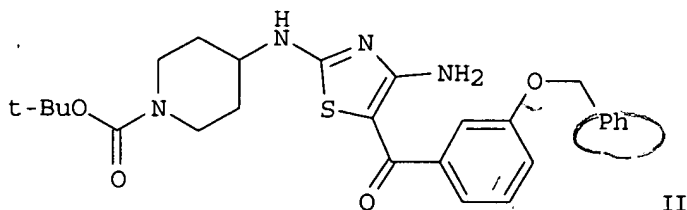
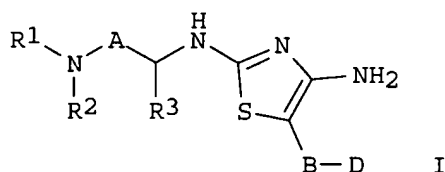
US 2001-309953P P 20010803

WO 2002-DK508 W 20020722

OTHER SOURCE(S):

MARPAT 138:187762

GI



AB The title compds. I [A = a bond, alkylene; NR1R2 = (un)substituted 5-7 membered non-aromatic ring, which may contain a double bond and addnl. N atom; or R1 = H, alkyl, arylalkyl, etc. and R2 and R3 are connected to form , together with A and the N atom and C atom, resp., to which they are attached, a 5-7 membered non-aromatic ring; or R1, R2 = H, CO2alkyl, alkyl, etc.; R3 = H; B = a bond, CO, SO, SO2; D = OH, halo, CN, etc.] which inhibit GSK-3 (glycogen synthase kinase-3) and therefore may be useful for the treatment of disorders, syndromes, diseases and conditions, wherein an inhibition of GSK-3 (glycogen synthase kinase-3) is beneficial, especially IGT (impaired glucose tolerance), type 1 diabetes, type 2 diabetes, obesity, Alzheimer's disease and bipolar disorder, were prepared and formulated. Thus, reacting 1-(3-benzyloxyphenyl)-2-bromoethanone with N-Boc-isothiocyanatopropylamine afforded II which showed IC50 of < 1 μ M against GSK-3.

REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:42245 HCAPLUS

DOCUMENT NUMBER: 138:106689

TITLE: Preparation of thiazolylamino benzamide derivatives as modulators of cell proliferation and inhibitors of protein kinases

INVENTOR(S): Chu, Shao Song; Alegria, Larry Andrew; Bleckman, Ted Michael; Chong, Wesley K. M.; Duvadie, Rohit K.; Li, Lin; Reich, Siegfried H.; Romines, William H.; Wallace, Michael B.; Yang, Yi

PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 163 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

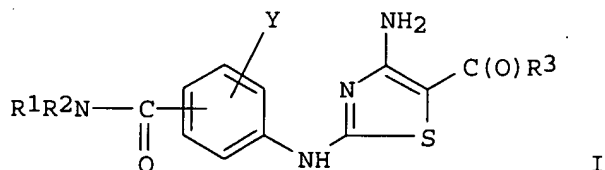
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003004467	A2	20030116	WO 2002-US21280	20020705
WO 2003004467	A3	20040506		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2452609	AA	20030116	CA 2002-2452609	20020705
US 2003225147	A1	20031204	US 2002-190219	20020705
US 6720346	B2	20040413		
EP 1438046	A2	20040721	EP 2002-782499	20020705
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
JP 2005521631	T2	20050721	JP 2003-510635	20020705
PRIORITY APPLN. INFO.:			US 2001-303679P	P 20010706
			US 2001-305274P	P 20010713
			WO 2002-US21280	W 20020705

OTHER SOURCE(S): MARPAT 138:106689

GI



AB Aminothiazole compds. with mono-/di-substituted benzamides (shown as I; variables described below; e.g. 4-[[4-amino-5-(2,6-difluorobenzoyl)thiazol-2-yl]amino]-N-(2-morpholin-4-ylethyl)benzamide), and their

pharmaceutically acceptable salts, pharmaceutically acceptable prodrugs, pharmaceutically active metabolites, and pharmaceutically acceptable salts of said metabolites are described. These agents modulate and/or inhibit the cell proliferation and activity of protein kinases and are useful as pharmaceuticals for treating malignancies and other disorders. Inhibitory activities towards three cyclin complexes of protein kinases, phosphorylated FGF receptor and/or LCK tyrosine kinase and/or cytotoxicity towards the HCT-116 cancer cell line are reported for hundreds of I, many of which were prepared combinatorially. For I: R1 and R2 are each independently H, or an alkyl, alkenyl, alkynyl, heteroalkyl, alkoxy, aminoalkyl, aryl, heteroaryl, cycloalkyl, or heterocycloalkyl group unsubstituted or substituted with ≥ 1 substituents listed in the claims, or R1 or R2, together with the N-C(O) and two adjacent C atoms of the Ph ring of I, forms a 5- or 6-membered ring structure fused to the Ph ring of I and unsubstituted or substituted with ≥ 1 substituents listed in the claims, or R1 and R2, taken together with the N atom to which they are bonded, form a monocyclic or fused or nonfused polycyclic structure which may contain 1-3 addnl. heteroatoms, the structure being unsubstituted or substituted with ≥ 1 substituents listed in the claims. R3 is an aryl, heteroaryl, alkyl, or cycloalkyl group, unsubstituted or substituted with ≥ 1 substituents listed in the claims. Y is H, alkyl, heteroalkyl, haloalkyl, halocycloalkyl, haloheterocycloalkyl, cycloalkyl, heterocycloalkyl, -NO₂, -NH₂, -N-OH, -N-ORc, -CN, -(CH₂)_z-CN (z is 0-4), halogen, -OH, -O-Ra-O-, -ORb, -CO-R, -O-CO-Rc, -CO-ORc, -O-CO-OR, -O-OR, =O, =S, -NRdRe, -CO-NRdRe, -O-CO-NRdRe, -NRc-CO-Re, -NR-CO-OR, -CO-NRc-CO-Rd, -O-SO₂-Re, -O-SO-R, -O-S-Re, -S-CO-Rc, -SO-CO-ORc, -SO-CO-OR, -O-SO₃, -NRc-SRd, -NRc-SO-Rd, NRc-SO₂-Rd, -CO-SRc, -CO-SO-Re, -CO-OSO₂-Rc, -CS-Rc, -CSO-R, -CSO₂-R,, -NRc-CS-Rd, -O-CS-Re, -O-CSO-Rc, -O-SO₂-Re, -OS₂-NRdRe, -SO-NRdRe, -S-NRdRe, -NRd-CSO₂-Rd, -NRc-CSO-Rd, -NRc-CS-Rd, -SH, -S-Rb, and -PO₂-ORc (Ra, etc. defined in claims). Although the methods of preparation are not claimed, .apprx.80 example preps. of I are included and directions are given for combinatorial preparation of 396 I.

L17 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:581702 HCAPLUS

DOCUMENT NUMBER: 135:166823

TITLE: Preparation of 2,4-diaminothiazoles as GSK-3 inhibitors

INVENTOR(S): Bowler, Andrew Neil; Olesen, Preben Houlberg; Sorensen, Anders Robert; Hansen, Bo Falck; Worsaae, Helle; Kurtzhals, Peter

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

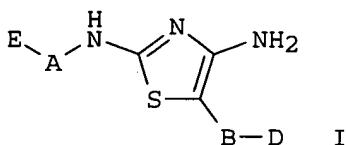
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056567	A1	20010809	WO 2001-DK73	20010201
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2001039275 A1 20011108 US 2001-774900 20010131
PRIORITY APPLN. INFO.: DK 2000-187 A 20000204
US 2000-183518P P 20000218

OTHER SOURCE(S): MARPAT 135:166823
GI



AB The title compds. [I; E = alkyl, alkenyl, alkoxy, etc.; A = a bond, alkylene, CO; B = a bond, CO, SO, etc.; D = OH, halo, CN, etc.] which inhibit GSK-3 (glycogen synthase kinase-3) and which are useful for the treatment and/or prevention disorders and diseases wherein an inhibition of GSK-3 is beneficial, especially Alzheimer's disease, bipolar disorder,

IGT (impaired glucose tolerance), Type 1 diabetes, Type 2 diabetes and obesity, were prepared and formulated. Thus, reacting 2-bromo-1-cyclopropylethanone with 1-phenyl-3-guanyltiourea afforded I [E = Ph; A = a bond; B = CO; D = cyclopropyl] which showed IC50 of < 5 µM against GSK-3.

L17 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:297411 HCAPLUS

DOCUMENT NUMBER: 130:325142

TITLE: Preparation of 4-aminothiazole derivatives as inhibitors of cyclin-dependent kinases

INVENTOR(S): Chong, Wesley K. M.; Chu, Shao Song; Duvadie, Rohit R.; Li, Lin; Xiao, Wei; Yang, Yi

PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

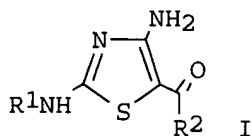
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9921845	A2	19990506	WO 1998-US22809	19981027
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2306082	AA	19990506	CA 1998-2306082	19981027
AU 9913664	A1	19990517	AU 1999-13664	19981027
AU 738792	B2	20010927		

TR 200001081	T2	20001023	TR 2000-200001081	19981027
EP 1056732	A2	20001206	EP 1998-957393	19981027
EP 1056732	B1	20060111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
SI 20324	C	20010228	SI 1998-20068	19981027
EE 200000289	A	20010615	EE 2000-200000289	19981027
BR 9815200	A	20011016	BR 1998-15200	19981027
EP 1215208	A2	20020619	EP 2002-1881	19981027
EP 1215208	A3	20020904		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
NZ 503788	A	20021126	NZ 1998-503788	19981027
US 6569878	B1	20030527	US 1998-179744	19981027
NZ 517419	A	20030829	NZ 1998-517419	19981027
JP 2004500304	T2	20040108	JP 2000-517957	19981027
RO 119463	B1	20041130	RO 2000-423	19981027
AT 315553	E	20060215	AT 1998-957393	19981027
NO 2000001955	A	20000616	NO 2000-1955	20000414
LT 4855	B	20011126	LT 2000-33	20000414
HR 2000000222	A1	20010228	HR 2000-222	20000417
MX 200003812	A	20001113	MX 2000-3812	20000418
LV 12592	B	20010720	LV 2000-51	20000503
BG 104478	A	20010228	BG 2000-104478	20000526
BG 64195	B1	20040430		
US 2003220326	A1	20031127	US 2003-388851	20030313
PRIORITY APPLN. INFO.:				
			US 1997-63634P	P 19971027
			US 1997-63666P	P 19971028
			EP 1998-957393	A3 19981027
			NZ 1998-503788	A1 19981027
			US 1998-179744	A3 19981027
			WO 1998-US22809	W 19981027
OTHER SOURCE(S): MARPAT 130:325142				
GI				



AB Title compds. [I; wherein R1 is a (un)substituted group selected from: alkyl, alkenyl, alkoxyl, alc., carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, cycloalkyl; carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, aryl, etc.; R2 is a carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, ring structure having a substituent at the position adjacent to the point of attachment, which ring structure is optionally further substituted, where each substituent of R independently is a halogen, haloalkyl, C-alkyl, C-alkenyl, C-alkynyl, hydroxyl, C-alkoxyl, amino, nitro, thiol, thioether, imine, cyano, amido, phosphonato, phosphine, carboxyl, thiocarbonyl, sulfonyl, sulfonamide, ketone, aldehyde, ester, oxygen, carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, cycloalkyl; or carbocyclic or heterocyclic, monocyclic or fused or non-fused polycyclic, aryl], a pharmaceutically acceptable salt, a prodrug, pharmaceutically active metabolite of title compound, or

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pharmaceutically acceptable salt thereof, are prepared as inhibitors of cyclin-dependent kinases (CDKs: CDK1, CDK2, CDK4, and CDK6) to the therapeutic or prophylactic use of pharmaceutical compns. containing such compds. and to methods of treating malignancies and other disorders by administering effective amts. of such compds. Thus, I (R1 = C6H5; R2 = 3-NO2C6H4) was prepared with 52% yield from cyanamide, isothiocyanate, and 2-bromo-3'-nitroacetophenone in the presence of sodium.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
84.47	872.80

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-14.25	-27.75

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